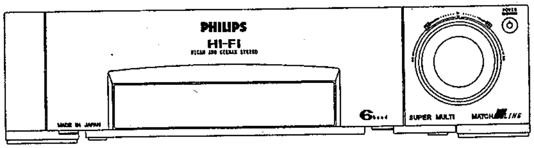
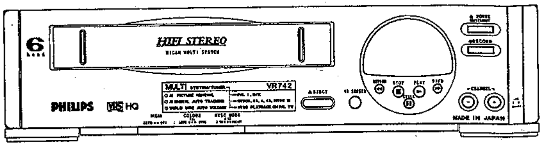
Video Cassette Recorder

VR842 /56
VR742 /55/57
VR642 /56

Service
Service
Service



VR842, VR642



VR742

Service Manual

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  Safety instructions
  Front/rear view of the video recorder
  Description of the controls
  Supplementary service information

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  Servicing of SMD's
  Block diagram
  Wiring diagram
  Survey PCB location
  Disassembly of the set

3 Electrical Adjustment Instructions
  PCB layout
  Circuit diagrams

4 Cabinet exploded view
  Exploded view of the tapedeck
  Partslist

Survey of types:

VR842	6head LP, NICAM, LCD remote control
VR742	6head LP, NICAM, LCD remote control
VR642	4head LP, LCD remote control

Survey of versions:

/55	PAL B/G
/56	PAL B/G, D/K, I Secam B/G, D/K NTSC M
/57	PAL, D/K, I NTSC M

Survey of remote controls:

VR842	4822 218 30695
VR742	4822 218 30695
VR642	4822 218 30695

Tape deck documentation:
reference is made to the Service Manual of tape deck PM4/0.

Safety regulations require that the set be restored to its original condition and that parts which are identical with those specified be used.

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(GB) 4822 726 15309

PHILIPS

CS 44 801

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3. SURVEY OF SETS AND PCBs

	PM01 Servo, driver, timer tuning and Luminance	PM02 Tuner, 2nd SIF, 2car. st, HiFi and NICAM (YK340V1310)	PM02 Tuner and Normal audio (YK339V1410)	PI01 Chrominance and Audio/Video selector	PS01 Power supply	PH01 Head amplifier for VR642	PH02 Head amplifier for VR842, VR742	PF01 HiFi Audio	PN01 NICAM	PC01 Display control for VR642	PC02 Display control for VR842	PC03 Display control for VR742	PC04 Display control for VR742	PM08 RF mode control
VR842 /56	•	•		•	•		•	•	•		•			•
VR742 /55	•	•		•	•		•	•	•			•	•	•
VR742 /57	•	•		•	•		•	•	•			•	•	•
VR642 /56	•		•	•	•	•				•				•

4. TECHNICAL DATA

Mains voltage	100V - 240V
Mains frequency	50/60 Hz
Power consumption	Typ. 32W
Ambient temperature	+ 5°C - + 40°C
Relative humidity	30 -80% 12H
Dimensions	360 x 330 x 87 mm
Weight	~5.5kg
Fast forward/rewind time	typ. 315s (E180 cass.)
Position of use	horizontally, max 15°
Video-resolution	≥ 240 lines
Audio	80Hz - 10kHz (SP)
FM Audio	20Hz - 20kHz

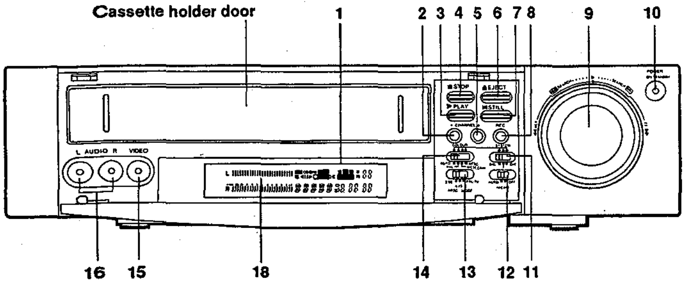
5. SAFETY INSTRUCTIONS

- Safety regulations demand that the set be restored to its original condition and that components identical with the original types be used.
  Safety components are marked by the symbol ⚠
- All ICs and many other semi-conductors are susceptible to electrostatic discharges (ESD). Careless handling during repair may reduce life drastically. When repairing, make sure that you are connected with the same potential as the mass of the set via a wrist wrap with resistance. Keep components and tools on the same potential.
- A set to be repaired should always be connected to the mains via a suitable isolating transformer.
- Never replace any modules or any other parts while the set is switched on.
- Use plastic instead of metal alignment tools. This in order to prelude short-circuit or to prevent a specific circuit from being rendered unstable.

REMARKS

- The direct voltages and oscillograms ought to be measured relative to the set mass.
- The direct voltages and oscillograms mentioned in the diagrams ought to be measured with a colour bar signal.
- The oscillograms and direct voltages have been measured in RECORD or PLAY mode.
- The semiconductors, which are mentioned in the circuit diagram and in the parts lists, are fully exchangeable per position with the semiconductors in the set, irrespective of the type designation of these semiconductors.

6. FRONT/REAR VIEW OF THE VIDEO RECORDER


Cassette holder door
1
2
3
4
5
6
7
8
9
10
STOP
EJECT
PLAY
STILL
POWER
AUDIO
VIDEO
16
15
18
14
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12
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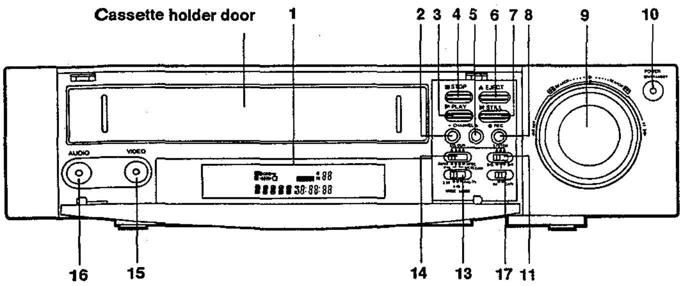
VR842


Cassette holder door
1
2
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4
5
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STOP
EJECT
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STILL
POWER
AUDIO
VIDEO
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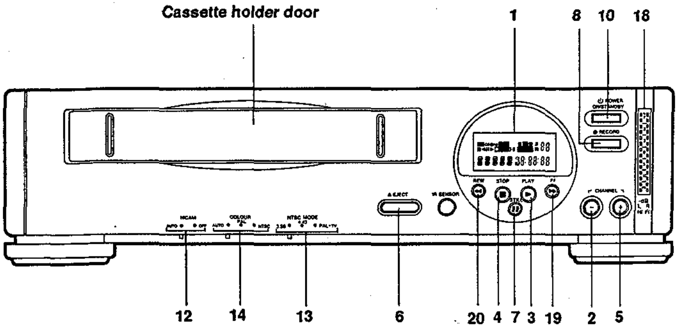
17
11

VR642


Cassette holder door
1
8
10
18
POWER
RECORD
EJECT
IR SENSOR
REW
STOP
PLAY
FF
CHANNEL
NICAM
COLOUR
NTSC MODE
12
14
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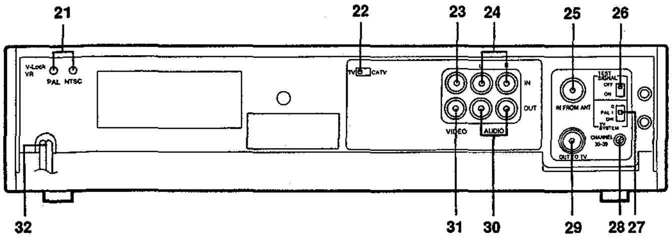
VR742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V-Lock VR
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IN
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VIDEO
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TV SYSTEM
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OUT TO TV
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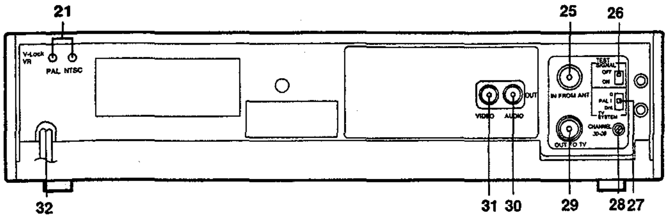
VR842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V-Lock VR
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NTSC
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TV SYSTEM
CHANNEL 30-39
OUT TO TV
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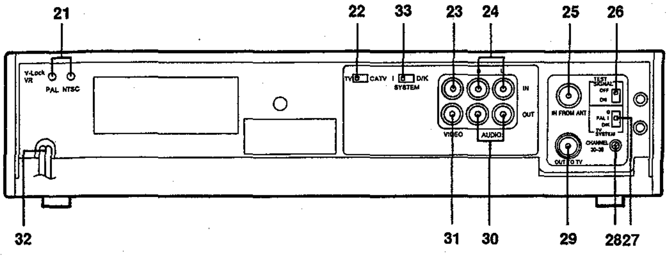
VR642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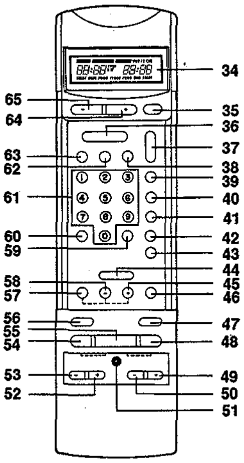
VR742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VR842 / VR642 / VR742

7. DESCRIPTION OF THE CONTROLS

FRONT

1		Display
2	—	Channel down button
3	▶	Play/X2 button
4	■	Stop button
5	+	Channel up button
6	⏏	Eject button
7	⧓	Pause/Still/Frame advance button
8		Record button
9		Shuttle ring
10	⏻	Power on/Standby button
11		System switch
12		Nicam AUTO/OFF switch
13		NTSC mode switch
14		Colour switch
15		VIDEO INPUT socket
16		AUDIO INPUT socket (L/R)
17		TV/CATV switch
18		HiFi stereo level meter
19	▶▶	Fast forward/Search/Slow motion button
20	◀◀	Rewind/Search button

Rear

21		Vertical lock adjustment controls (PAL/NTSC)
22		TV/CATV switch
23		VIDEO INPUT socket
24		AUDIO INPUT socket (L/R)
25		Antenna IN socket
26		Test signal switch
27		TV system selector
28	⊘	VCR output channel adjuster
29		RF OUT socket
30		AUDIO OUTPUT socket (L/R)
31		VIDEO OUTPUT socket
32		Main lead (power cord)
33		System switch

Remote Control

34		LCD display
35		Power on/Standby button
36		LCD timer/clock button
37		Record/OTR button
38		VCR set clock button
39		Tape speed selector
40		AI picture button
41		Go to button
42		Skip search button
43		Child lock button
44		VCR timer button
45		Tracking up/Channel search button
46		Audio mode button (VR842/742 only)
47	▯▯	Pause/Still/Frame advance button
48	▷▷	Fast forward/Search/Slow motion button
49	+	TV volume up button
50	—	TV volume down button
51		TV standby button
52	+	Programme up button
53	—	Programme down button
54	◁◁	Rewind/Search button
55	▷	Play/X2 button
56	□	Stop button
57		Auto tracking button
58		Tracking down/Channel store button
59		Clear button
60	-/--	Single/Double digit entry button
61	0 - 9	0 - 9 Digit buttons
62		Select button
63		Counter/Clock mode button
64	+	Up button
65	—	Down button

Remember. Only use cassettes of a well-known brand which carry the VHS logo.

VHS

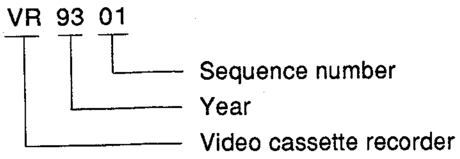
PAL NTSC

8. SUPPLEMENTARY SERVICE INFORMATION

- **Description of the system used for publishing modification data and supplements to the Service Manual.**

All modification data and supplements to the Service Manual are published by means of Service Information bulletins.
Each Service information has a number, for example:

Example:


VR 93 01
Sequence number
Year
Video cassette recorder

A Service Information bulletin consists of a front sheet, as the case may be followed by supplementary and/or replacement sheets.
Replacement sheets serve to replace existing sheets in the Service Manual. These sheets are identified by an additional letter after the page number, for example 5-1a. Page 5-1a then takes the place of page 5-1.
Supplementary sheets are inserted between the existing sheets in the Service Manual. These sheets can be identified by an additional figure following the page number, for example 5-1-1.
Sheet 5-1-1 should be inserted after page 5-1.
Each Service Information is accompanied by an updated list of contents per page.
For each page added or each page replaced the list of contents indicates with which service information the relevant page has been published.

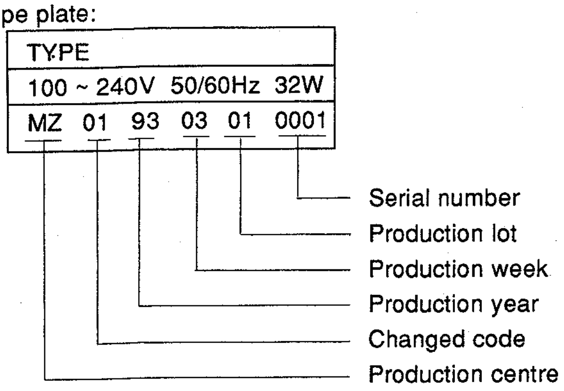
- **Description of the system by means of which modifications are indicated in the recorder.**

All important parts of the recorder, such as tape deck, p. c. boards and modules, are provided with a sticker. These stickers specify a number of product data. The meaning of this data will now be explained for the most important sections.

- The complete recorder

The type plate is located at the back of the recorder, below an example of such a type plate is given.

Type plate:


TYPE
100 ~ 240V 50/60Hz 32W
MZ 01 93 03 01 0001
Serial number
Production lot
Production week
Production year
Changed code
Production centre

Note:
In the case of an important modification to the recorder the productionscode on the type plate is increased by one.
E. g. 00 becomes 01.

1. SERVICE INSTRUCTIONS

1. 1 Service test program

This VCR has been provided with a service test program. The following lines describe what can be checked with the program and how it is activated.

A. Continuous test

This test may be used to check if the VCR with loaded cassette is working correctly.

Start procedure:
Keep DOWN and STILL buttons pressed in simultaneously when connecting the VCR to the mains voltage.
Two different tests are available:

a) continuous PLAY.
   The VCR is brought into the continuous play/rewind mode when, prior to the start procedure, a recorded cassette is loaded into the VCR. The recorder will play the tape till its end, rewind till the beginning of the tape, go back to play and so on.
b) continuous RECORD/PLAY
   When the cassette is loaded into the VCR before the start procedure is executed and after the start procedure RECORD is pressed, the VCR will enter the record mode till the end of the tape and then go into the continuous play/rewind mode.

Note: the continuous tests are interrupted by disconnecting the VCR from the mains supply.

B. Display test

This test may be used to confirm that all elements and symbols of the multifunction display are working correctly.
Start procedure:
Keep the PLAY and REC buttons pressed in simultaneously when connecting the VCR to the mains supply. All indication leds must be ignited.

C. Initialisation of the microprocessor

This function is used to initialize (to CLEAR) the microprocessor, all the data that is stored in the RAM memory is lost.
Start procedure:
Keep PLAY and REC buttons pressed in simultaneously when connecting the VCR to the mains supply. All leds must be ignited, press CLEAR via the remote control. All data is removed from the RAM.

2. SERVICING OF SMD's
(SURFACE MOUTED DEVICES)

2. 1 General cautions on handling and storage.

a) Oxidation on the SMDs terminals results in poor soldering. Do not handle SMDs with bare hands.
b) Avoid for storage places that are sensitive to oxidation such as places with sulfur or chlorine gas, direct sunlight, high temperatures or a high degree of humidity. As a result the capacitance or resistance value of the SMDs may be affected.
c) Rough handling of circuit boards containing SMDs may cause damage to the components as well as the circuit boards. Circuit boards containing SMDs should never be bent or flexed. Different circuit board materials expand and contract at different rates when heated or cooled and the components and/or solder connections may be damaged due to the stress. Never rub or scrape chip components as this may cause the value of the component to change.
Similarly, do not slide the circuit board across any surface.

2. 2 Removal of SMD's

a) Heat the solder (for 2-3 seconds) at each terminal of the chip. Small components can, by means of litz wire and a limited horizontal force, be removed with the soldering iron. They can also be removed with a solder sucker (see Fig. 1A) or
b) While holding the SMD with a pair of tweezers take it off gently using the soldering iron's heat applied to each terminal (see Fig. 1B).
c) Remove the excess solder on the solder lands by means of litz wire or a solder sucker (see Fig. 1C).

Caution on removal:

a) When handling the soldering iron, use suitable pressure and be careful.
b) When removing the chip, do not use undue force with the pair of tweezers.
c) The soldering iron to be used (approx. 30 W), must preferably be provided with a thermal control (soldering temperature about 225 to 250°C).
d) The chip, once removed, must never be used again.

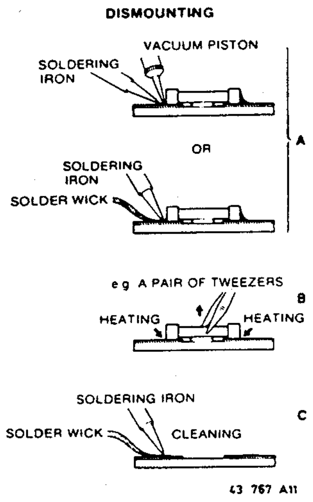

DISMOUNTING
VACUUM PISTON
SOLDERING IRON
OR
SOLDERING IRON
SOLDER WICK
A
e g A PAIR OF TWEEZERS
B
HEATING
HEATING
SOLDERING IRON
C
SOLDER WICK
CLEANING
43 767 A11

Fig. 1

2. 3 Attachment of SMD's

a) Locate the SMD on the solder lands by means of tweezers and solder the component at one side. Ensure that the component is positioned well on the solder lands (see Fig. 2A).
b) Next complete the soldering of the terminals of the component (see Fig. 2B).

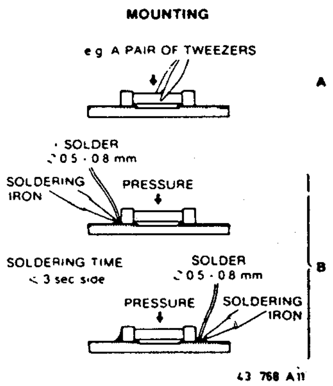

MOUNTING
e g A PAIR OF TWEEZERS
A
SOLDER
∅0 5 - 0 8 mm
SOLDERING IRON
PRESSURE
SOLDERING TIME
≤ 3 sec side
SOLDER
∅0 5 - 0 8 mm
PRESSURE
SOLDERING IRON
B
43 768 A11

Fig. 2

Caution on attachment:

a) When soldering the SMD terminals, do not touch them directly with the soldering iron. The soldering must be as quick as possible; care must be taken to avoid damage to the terminals and the body itself.
b) Keep the SMD's body in contact with the printed board when soldering.
c) The soldering iron to be used (approx. 30 W) must preferably be provided with a thermal control (soldering temperature about 225 to 250°C).
d) Soldering should not be done outside the solder land.
e) Soldering flux (of rosin) may be used but should not be acidic.
f) After soldering, let the SMD cool down gradually at room temperature.
g) The quantity of solder must be proportional with the size of the solder land. If the quantity is too great, the SMD might crack or the solder lands might be torn loose from the printed board (see Fig. 3).

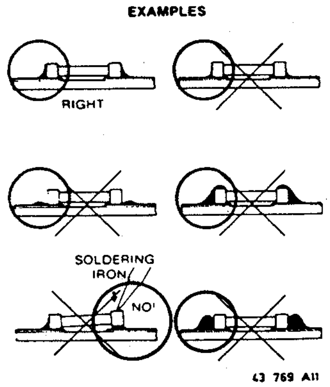
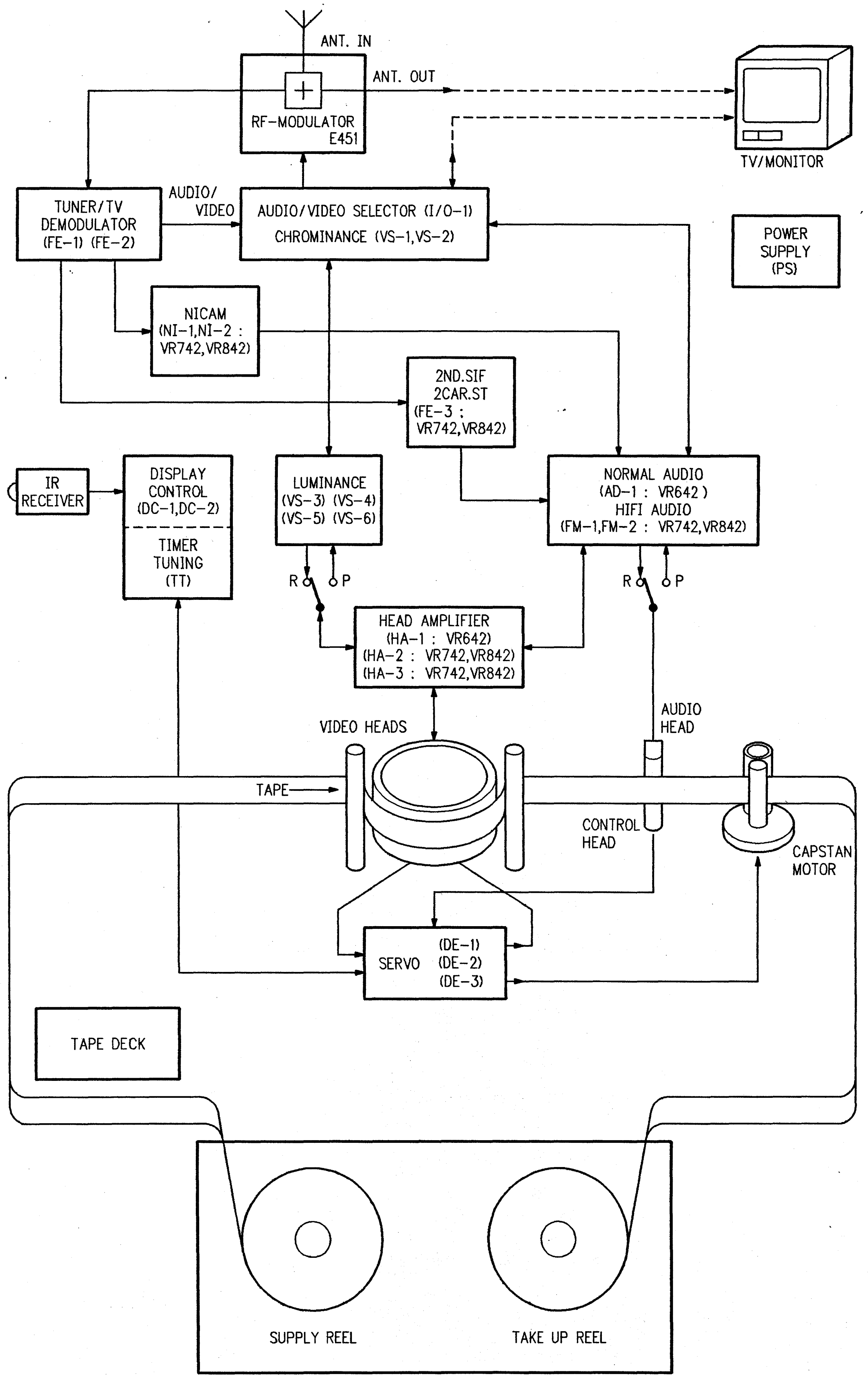
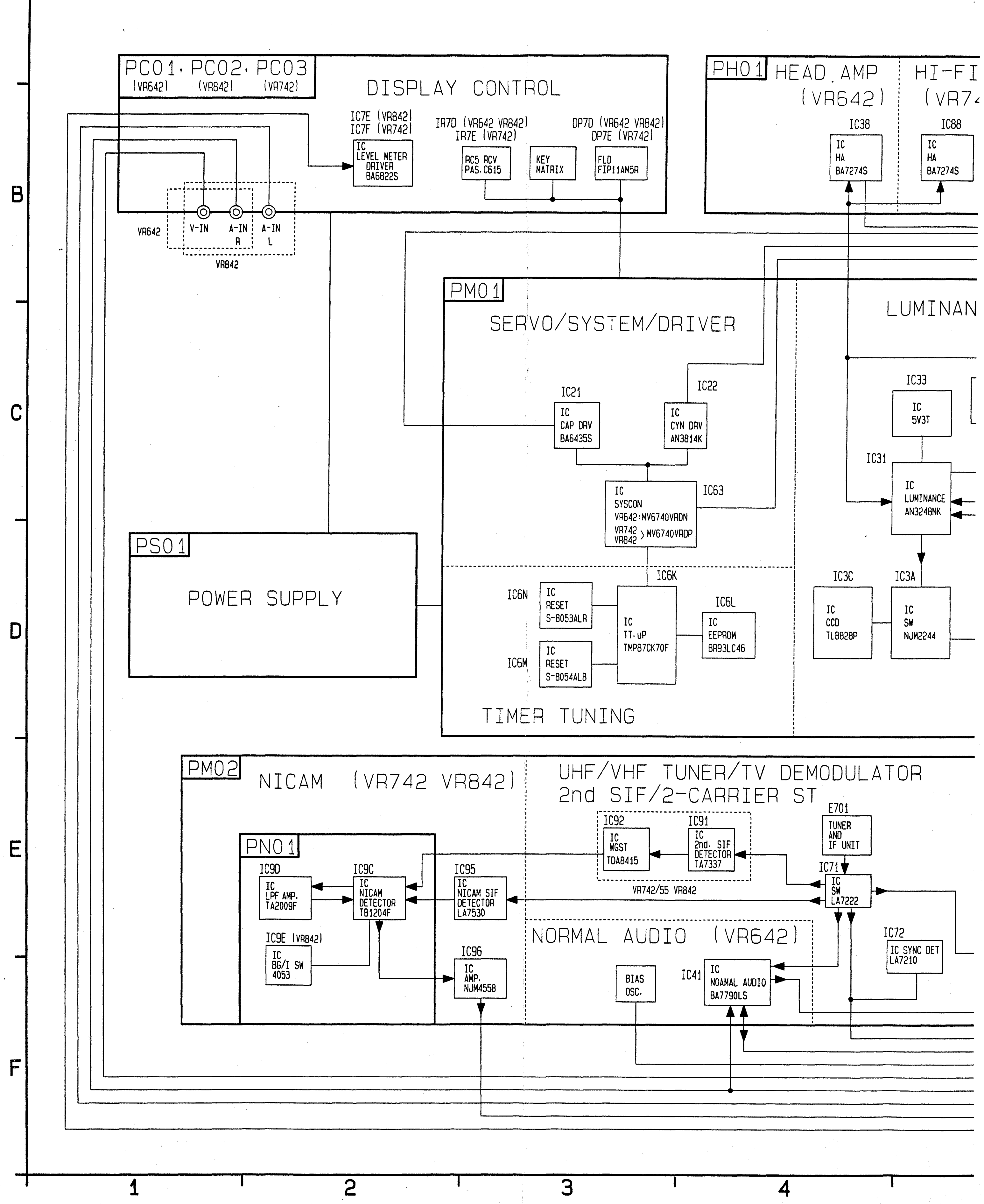

EXAMPLES
RIGHT
SOLDERING IRON
NO!
43 769 A11

Fig. 3

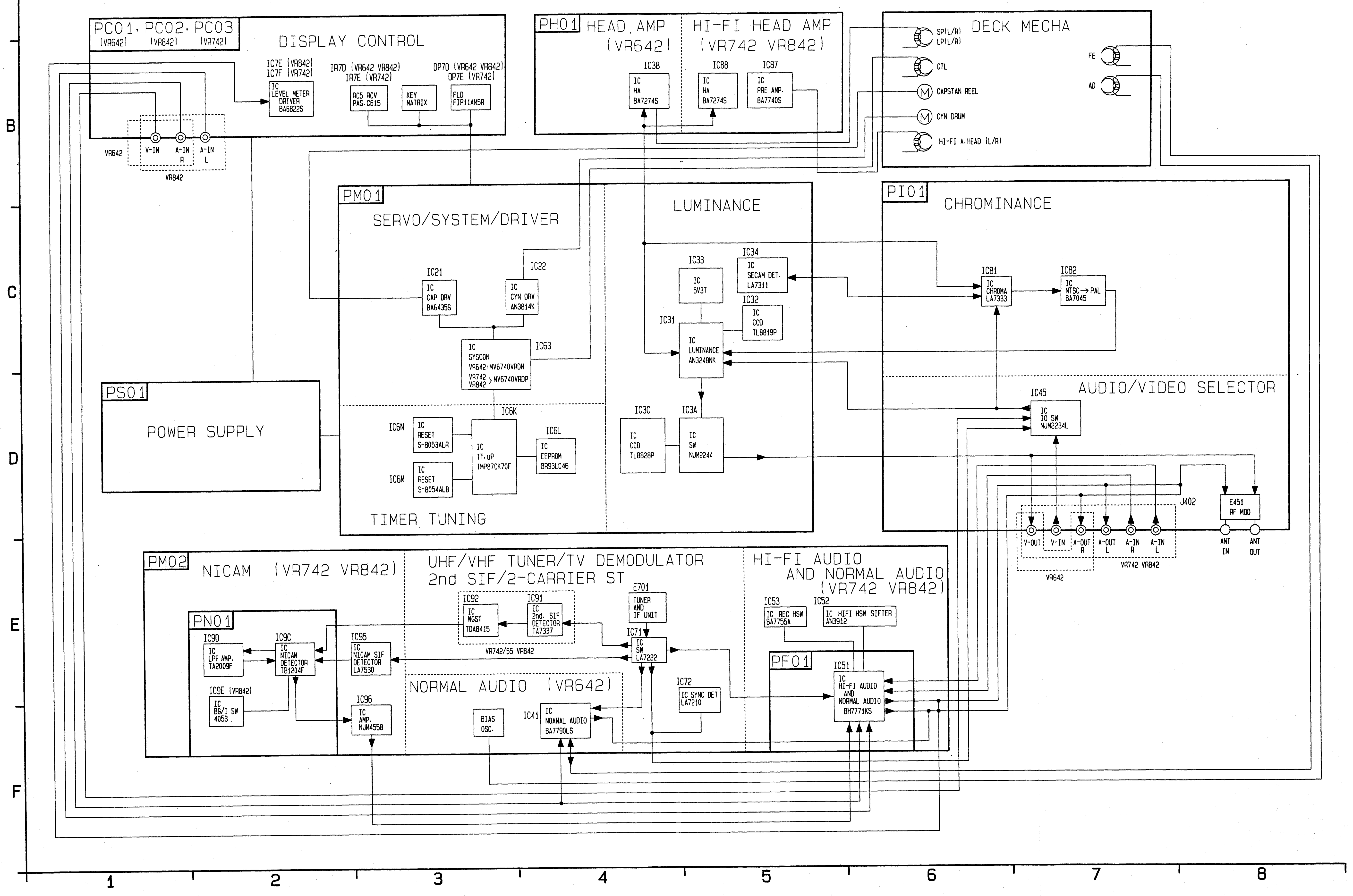
OVERALL BLOCK DIAGRAM 1


ANT. IN
ANT. OUT
RF-MODULATOR
E451
TV/MONITOR
TUNER/TV
DEMODULATOR
(FE-1) (FE-2)
AUDIO/
VIDEO
AUDIO/VIDEO SELECTOR (I/O-1)
CHROMINANCE (VS-1,VS-2)
POWER
SUPPLY
(PS)
NICAM
(NI-1,NI-2 :
VR742,VR842)
2ND.SIF
2CAR.ST
(FE-3 :
VR742,VR842)
IR
RECEIVER
DISPLAY
CONTROL
(DC-1,DC-2)
TIMER
TUNING
(TT)
LUMINANCE
(VS-3) (VS-4)
(VS-5) (VS-6)
NORMAL AUDIO
(AD-1 : VR642)
HIFI AUDIO
(FM-1,FM-2 : VR742,VR842)
R
P
R
P
HEAD AMPLIFIER
(HA-1 : VR642)
(HA-2 : VR742,VR842)
(HA-3 : VR742,VR842)
AUDIO
HEAD
VIDEO HEADS
TAPE
CONTROL
HEAD
CAPSTAN
MOTOR
SERVO
(DE-1)
(DE-2)
(DE-3)
TAPE DECK
SUPPLY REEL
TAKE UP REEL

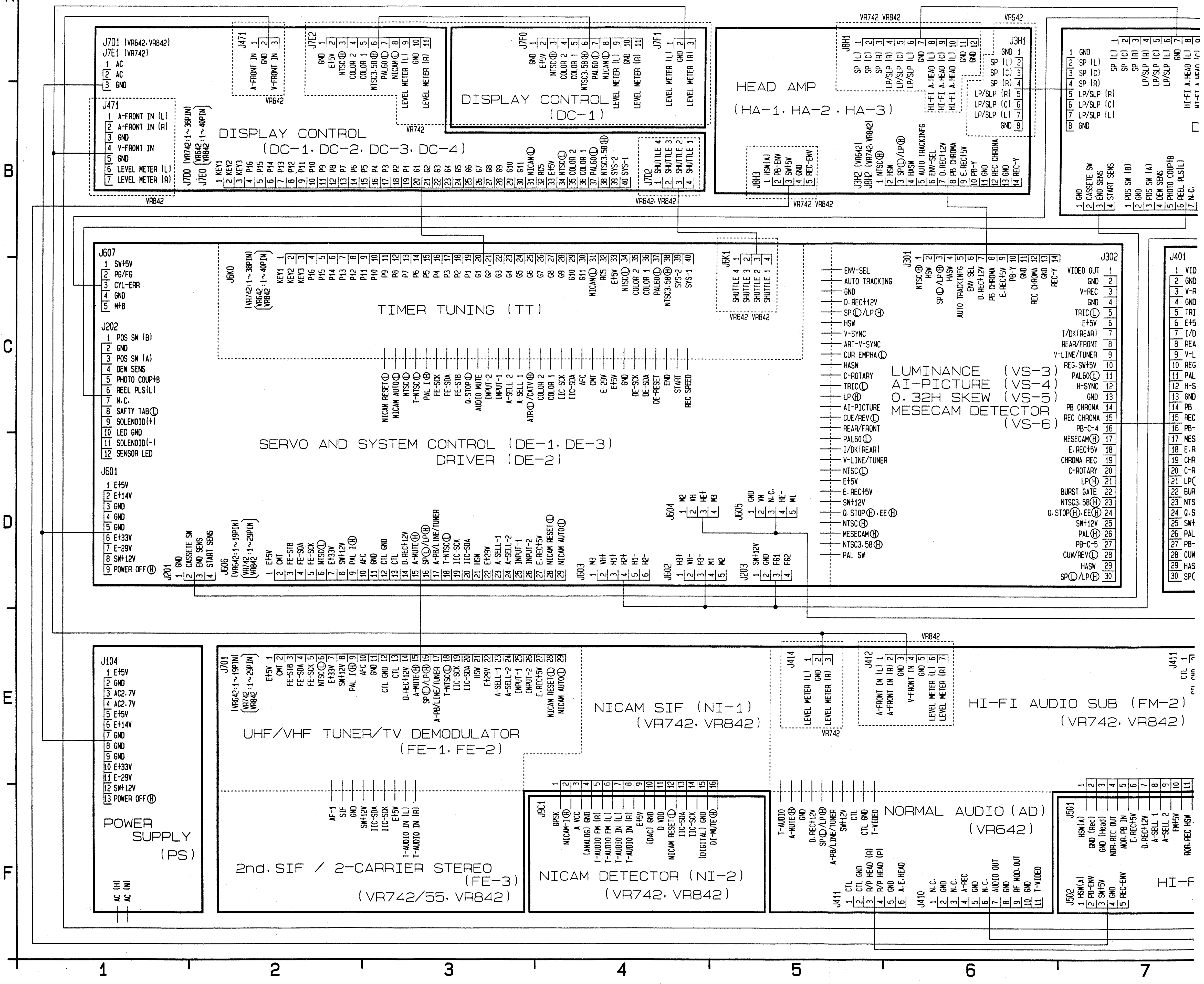
OVERALL BLOCK DIA


A
B
C
D
E
F
1
2
3
4
PC01, PC02, PC03
(VR642)
(VR842)
(VR742)
DISPLAY CONTROL
IC7E (VR842)
IC7F (VR742)
IC
LEVEL METER
DRIVER
BA6822S
IR7D (VR642 VR842)
IR7E (VR742)
RC5 RCV
PAS.C615
KEY
MATRIX
DP7D (VR642 VR842)
DP7E (VR742)
FLD
FIP11AM5R
VR642
V-IN
A-IN
R
A-IN
L
VR842
PH01
HEAD AMP
(VR642)
HI-FI
(VR7
IC38
IC
HA
BA7274S
IC88
IC
HA
BA7274S
PM01
SERVO/SYSTEM/DRIVER
LUMINAN
IC21
IC
CAP DRV
BA6435S
IC22
IC
CYN DRV
AN3814K
IC63
IC
SYSCON
VR642:MV6740VRDN
VR742
VR842
MV6740VRDP
IC6K
IC6N
IC
RESET
S-8053ALR
IC6M
IC
RESET
S-8054ALB
IC
TT.uP
TMP87CK70F
IC6L
IC
EEPROM
BR93LC46
TIMER TUNING
IC33
IC
5V3T
IC31
IC
LUMINANCE
AN3248NK
IC3C
IC
CCD
TL8828P
IC3A
IC
SW
NJM2244
PS01
POWER SUPPLY
PM02
NICAM (VR742 VR842)
UHF/VHF TUNER/TV DEMODULATOR
2nd SIF/2-CARRIER ST
E701
TUNER
AND
IF UNIT
IC92
IC
WGST
TDA8415
IC91
IC
2nd. SIF
DETECTOR
TA7337
IC71
IC
SW
LA7222
VR742/55 VR842
PN01
IC9D
IC
LPF AMP.
TA2009F
IC9C
IC
NICAM
DETECTOR
TB1204F
IC95
IC
NICAM SIF
DETECTOR
LA7530
IC9E (VR842)
IC
BG/I SW
4053
IC96
IC
AMP.
NJM4558
NORMAL AUDIO (VR642)
BIAS
OSC.
IC41
IC
NOAMAL AUDIO
BA7790LS
IC72
IC SYNC DET
LA7210

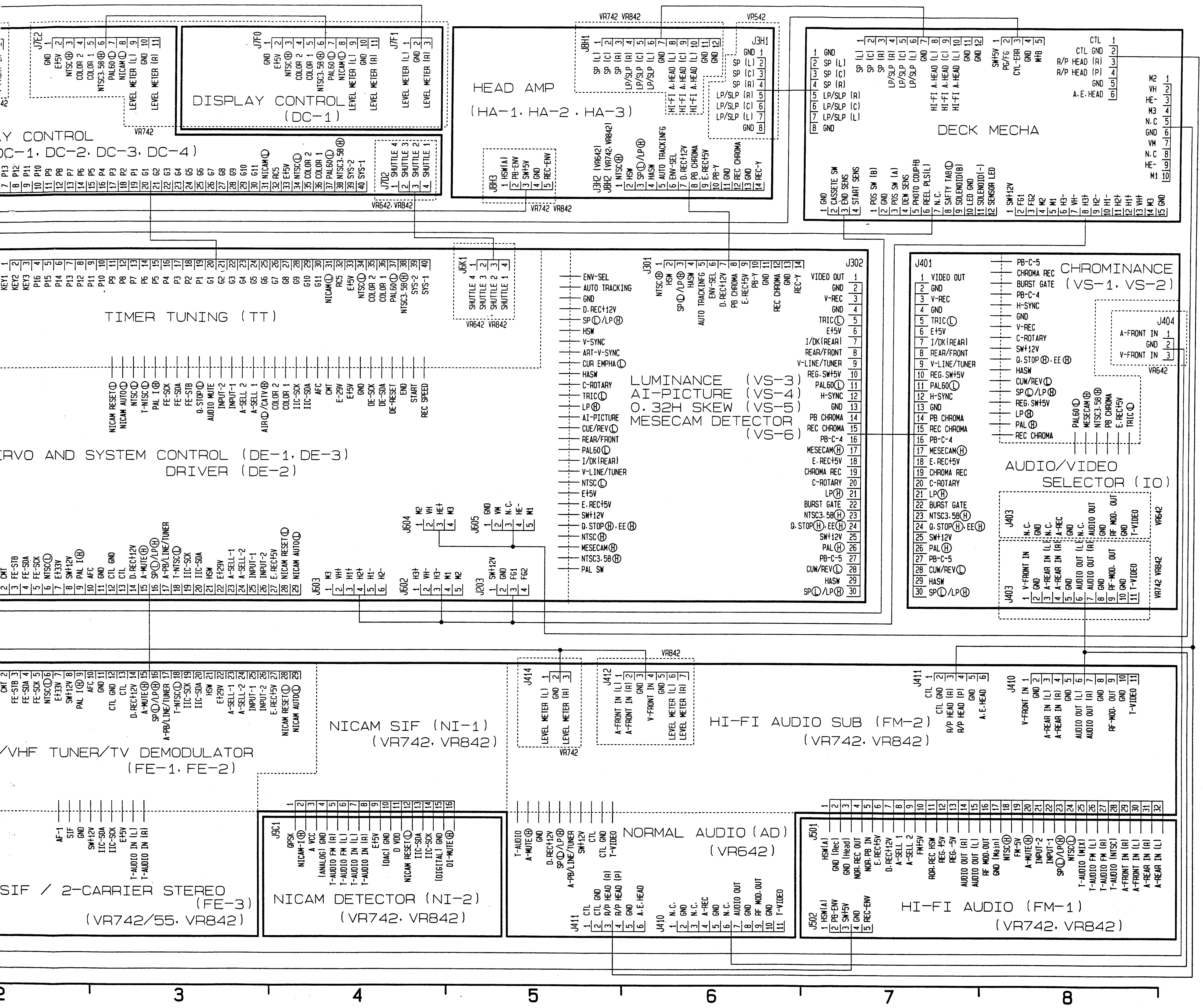
OVERALL BLOCK DIAGRAM 2


A
B
C
D
E
F
1
2
3
4
5
6
7
8
PC01, PC02, PC03
(VR642) (VR842) (VR742)
DISPLAY CONTROL
IC7E (VR842)
IC7F (VR742)
IC LEVEL METER DRIVER BA6822S
IR7D (VR642 VR842)
IR7E (VR742)
RC5 RCV PAS-C615
KEY MATRIX
DP7D (VR642 VR842)
DP7E (VR742)
FLD FIP11AM5R
VR642
V-IN
A-IN R
A-IN L
VR842
PH01 HEAD AMP (VR642)
HI-FI HEAD AMP (VR742 VR842)
IC38
IC HA BA7274S
IC88
IC HA BA7274S
IC87
IC PRE AMP. BA7740S
DECK MECHA
SP(L/R)
LP(L/R)
CTL
CAPSTAN REEL
CYN DRUM
HI-FI A.HEAD (L/R)
FE
AD
PM01
SERVO/SYSTEM/DRIVER
IC21
IC CAP DRV BA6435S
IC22
IC CYN DRV AN3814K
IC63
IC SYSCON VR642:MV6740VRDN VR742 VR842 > MV6740VRDP
IC6K
IC6N
IC RESET S-8053ALR
IC6M
IC RESET S-8054ALB
IC TT.uP TMP87CK70F
IC6L
IC EEPROM BR93LC46
TIMER TUNING
LUMINANCE
IC33
IC 5V3T
IC34
IC SECAM DET. LA7311
IC32
IC CCD TL8819P
IC31
IC LUMINANCE AN3248NK
IC3C
IC CCD TL8828P
IC3A
IC SW NJM2244
PI01
CHROMINANCE
IC81
IC CHROMA LA7333
IC82
IC NTSC→PAL BA7045
AUDIO/VIDEO SELECTOR
IC45
IC IO SW NJM2234L
J402
E451 RF MOD
V-OUT
V-IN
A-OUT R
A-OUT L
A-IN R
A-IN L
ANT IN
ANT OUT
VR642
VR742 VR842
PS01
POWER SUPPLY
PM02
NICAM (VR742 VR842)
UHF/VHF TUNER/TV DEMODULATOR
2nd SIF/2-CARRIER ST
HI-FI AUDIO AND NORMAL AUDIO (VR742 VR842)
PN01
IC9D
IC LPF AMP. TA2009F
IC9C
IC NICAM DETECTOR TB1204F
IC9E (VR842)
IC B6/I SW 4053
IC95
IC NICAM SIF DETECTOR LA7530
IC96
IC AMP. NJM4558
IC92
IC WGST TDA8415
IC91
IC 2nd. SIF DETECTOR TA7337
VR742/55 VR842
E701
TUNER AND IF UNIT
IC71
IC SW LA7222
NORMAL AUDIO (VR642)
BIAS OSC.
IC41
IC NOAMAL AUDIO BA7790LS
IC72
IC SYNC DET LA7210
IC53
IC REC HSW BA7755A
IC52
IC HIFI HSW SIFTER AN3912
PF01
IC51
IC HI-FI AUDIO AND NORMAL AUDIO BH7771KS

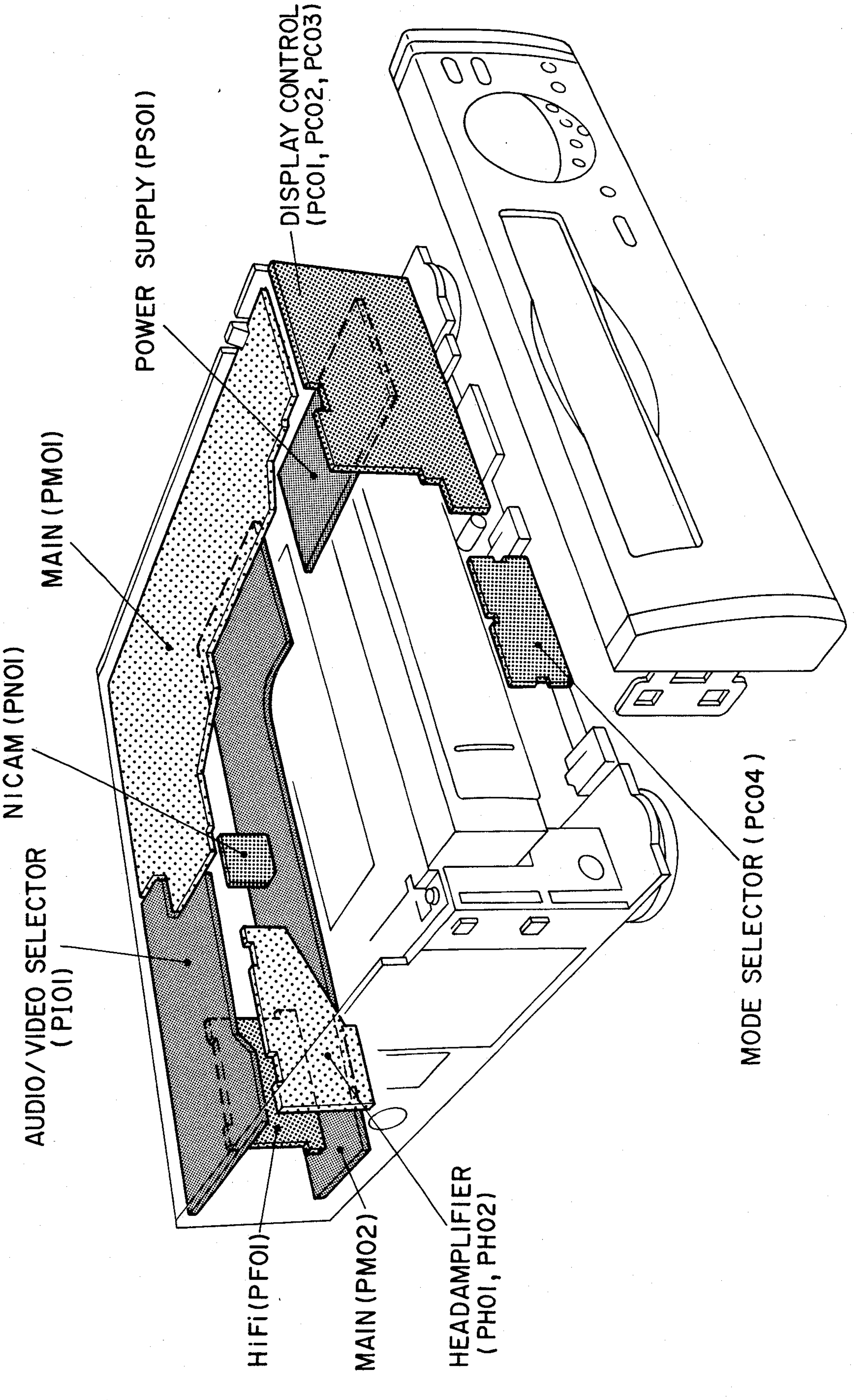
WIRING DIAGRAM


A
B
C
D
E
F
1
2
3
4
5
6
7
J7D1 (VR642, VR842)
J7E1 (VR742)
J471
J7E2
J7F0
J7F1
J7D0
J7E0
J7D2
DISPLAY CONTROL
(DC-1, DC-2, DC-3, DC-4)
DISPLAY CONTROL
(DC-1)
HEAD AMP
(HA-1, HA-2, HA-3)
J8H1
J3H1
J8H3
J3H2 (VR642)
J8H2 (VR742, VR842)
J607
J202
J601
J6K0
J6K1
TIMER TUNING (TT)
SERVO AND SYSTEM CONTROL (DE-1, DE-3)
DRIVER (DE-2)
J301
J302
LUMINANCE (VS-3)
AI-PICTURE (VS-4)
0.32H SKEW (VS-5)
MESECAM DETECTOR (VS-6)
J401
J201
J506
J603
J602
J203
J604
J605
J104
POWER SUPPLY (PS)
J701
UHF/VHF TUNER/TV DEMODULATOR
(FE-1, FE-2)
NICAM SIF (NI-1)
(VR742, VR842)
J414
J412
HI-FI AUDIO SUB (FM-2)
(VR742, VR842)
J411
2nd. SIF / 2-CARRIER STEREO
(FE-3)
(VR742/55, VR842)
J9C1
NICAM DETECTOR (NI-2)
(VR742, VR842)
NORMAL AUDIO (AD)
(VR642)
J411
J410
J501
J502
HI-F
VR642
VR742
VR842
VR642, VR842
VR742 VR842
VR542
AC (H)
AC (N)

WIRING DIAGRAM


DISPLAY CONTROL (DC-1)
Y CONTROL
DC-1, DC-2, DC-3, DC-4)
J7E2
J7F0
J7F1
J7D2
VR742
VR642, VR842
HEAD AMP
(HA-1, HA-2, HA-3)
J8H1
J8H3
J3H1
J3H2 (VR642)
J8H2 (VR742, VR842)
VR742 VR842
VP542
DECK MECHA
TIMER TUNING (TT)
J6K1
VR642 VR842
J301
J302
LUMINANCE (VS-3)
AI-PICTURE (VS-4)
0.32H SKEW (VS-5)
MESECAM DETECTOR (VS-6)
J401
CHROMINANCE (VS-1, VS-2)
J404
VR642
AUDIO/VIDEO SELECTOR (IO)
J403
VR742 VR842
ERVO AND SYSTEM CONTROL (DE-1, DE-3)
DRIVER (DE-2)
J604
J605
J603
J602
J203
J414
J412
VR842
VR742
J411
J410
/VHF TUNER/TV DEMODULATOR
(FE-1, FE-2)
NICAM SIF (NI-1)
(VR742, VR842)
HI-FI AUDIO SUB (FM-2)
(VR742, VR842)
J9C1
SIF / 2-CARRIER STEREO
(FE-3)
(VR742/55, VR842)
NICAM DETECTOR (NI-2)
(VR742, VR842)
NORMAL AUDIO (AD)
(VR642)
J501
J502
HI-FI AUDIO (FM-1)
(VR742, VR842)
2
3
4
5
6
7
8

5. SURVEY PCB LOCATION


POWER SUPPLY (PS01)
DISPLAY CONTROL (PC01, PC02, PC03)
MAIN (PM01)
NICAM (PN01)
AUDIO/VIDEO SELECTOR (PI01)
HiFi (PF01)
MAIN (PM02)
HEADAMPLIFIER (PH01, PH02)
MODE SELECTOR (PC04)

6. DISASSEMBLY OF THE SET

6. 1 Service position

Place the unit as shown in Fig. 1 for servicing.

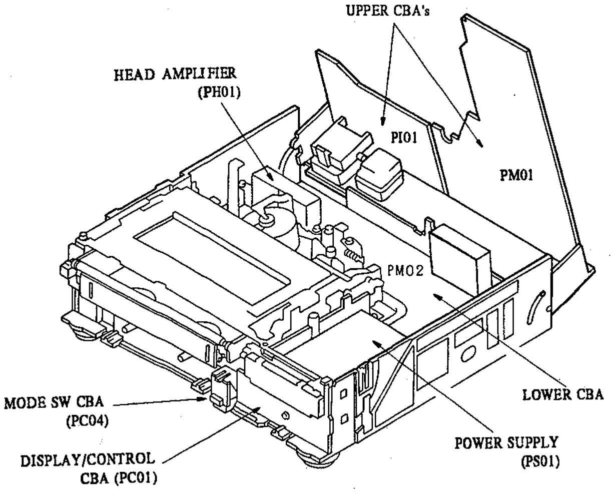

UPPER CBA's
HEAD AMPLIFIER (PH01)
PI01
PM01
PM02
MODE SW CBA (PC04)
LOWER CBA
POWER SUPPLY (PS01)
DISPLAY/CONTROL CBA (PC01)

Fig. 1

6. 2 Manual unloading of the VCR

When, due to some electrical or mechanical failure of the VCR a cassette is stuck in the recorder, it is possible to remove the cassette by hand.

- Remove the bottom plate.
- Rotate the center pulley (Fig. 2) counterclockwise while pushing the change lever on the bottom side of the tapedeck (Fig. 3) as indicated by the arrow to release the lock. See also the relevant chapter in tapedeck manual DM 4/0.
  Warning:Removal of the loader from the tapedeck requires vast readjustments of the deck after remounting of the loader.

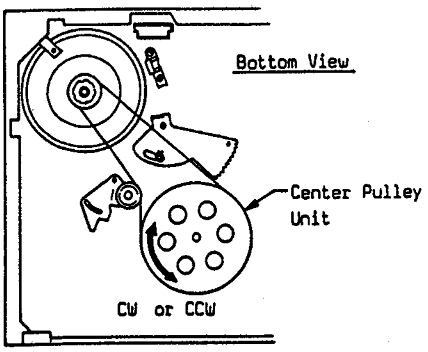

Bottom View
Center Pulley Unit
CW or CCW

Fig. 2

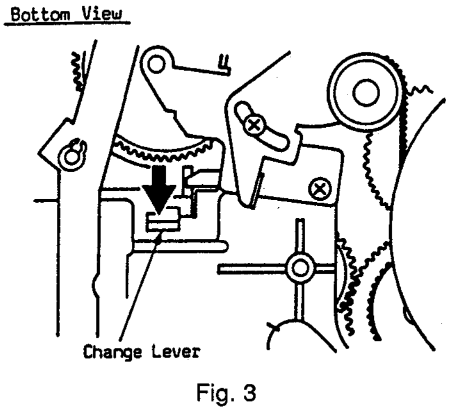

Bottom View
Change Lever

Fig. 3

6. 3 Capstan rotor unit

The Capstan rotor unit is supplied as a replacement part in a complete unit with a spring loaded capstan pulley.
Do not remove the retaining ring on the capstan pulley of the capstan rotor unit or the replacement unit will be rendered useless (Fig. 4).
For more information see tapedeck manual DM 4/0.

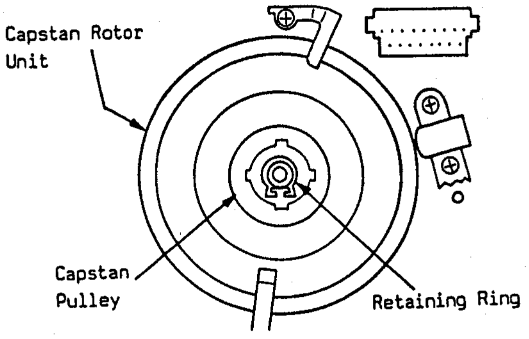

Capstan Rotor Unit
Capstan Pulley
Retaining Ring

Fig. 4

6. 4 Variable voltage transformer

Because a hot chassis ground is present in the power supply circuit, an isolation transformer must be used. Also, in order to have the ability to increase the input slowly, when troubleshooting in this type power supply circuit, a variable transformer is required.

6. 5 Prevention of electrostatic discharge (ESD)

All IC's and many other semi-conductors are susceptible to electrostatic discharges (ESD). Careless handling during repair can reduce their life drastically.
When repairing, make sure that you are connected with the same potential as the mass of the set via a wrist wrap with resistance. Keep components and tools also at this potential.

6. 6 Measurements

All voltages, given on the circuit diagrams, have been measured in the SP recording mode.

6. 7 Parts replacement on Head amplifier ass'y

- Unsnap and remove the shield case.
- Remove the Head Amp CBA by unsoldering the 5 fixing points (A) that connect the shield case with the Head Amp CBA (Fig. 5).
- Open the side of the shield case slightly and pull out the Head Amp CBA.
- After parts replacements it is necessary to resolder the shield case at points (A) on the Head Amp CBA.
- Re-install the shield case.

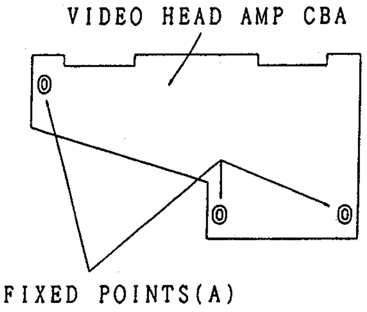

VIDEO HEAD AMP CBA
FIXED POINTS(A)

Fig. 5

6. 8 Connecting/disconnecting of plugs

a. Disconnecting the flexible cable to the trap connector P1504 and P1508 on the tapedeck (Fig. 6).
- Pull-out both ends of the locking tab which surrounds the connector to release the connector.
- Remove the flexible cable carefully (See Fig. 6).
- Connecting the flexible cable is done in the reverse order

Note: Take care not to damage the cable.

b. Flat cable connectors

Connecting/disconnecting is done by carefully pushing in or pulling out the flexible cable.

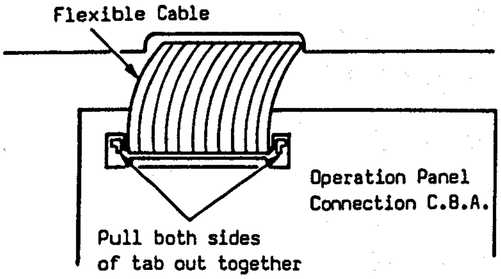

Flexible Cable
Operation Panel Connection C.B.A.
Pull both sides of tab out together

Fig. 6

6. 9 Identification of connectors on schematic diagrams

- Each connector is labelled with a specific schematic and connector number, which indicates to what it is connected to and on which diagram it is located (Fig. 7).
- Each connector shown as a number inside of a square is a connection within a circuit and within the same CBA.
- Use the wiring diagram to find the connections between associated connectors.

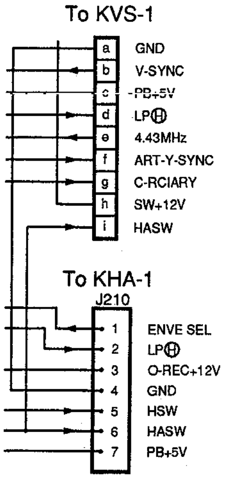

To KVS-1
a
GND
b
V-SYNC
c
PB+5V
d
LPⒽ
e
4.43MHz
f
ART-Y-SYNC
g
C-RCIARY
h
SW+12V
i
HASW
To KHA-1
J210
1
ENVE SEL
2
LPⒽ
3
O-REC+12V
4
GND
5
HSW
6
HASW
7
PB+5V

Fig. 7

6. 10 Disassembly of cabinet parts and service position of CBA's

- The following flow chart indicates the correct order to be used when disassembling the VCR (Fig. 8).
- The chart starts with the removal of the cabinet parts, and the order used to gain access to the CBA's.
- When reassembling perform the steps in the reverse order.

Note: When removing the front cover and its associated CBA's, use extreme care when unlocking the plastic tabs as they may break easily.

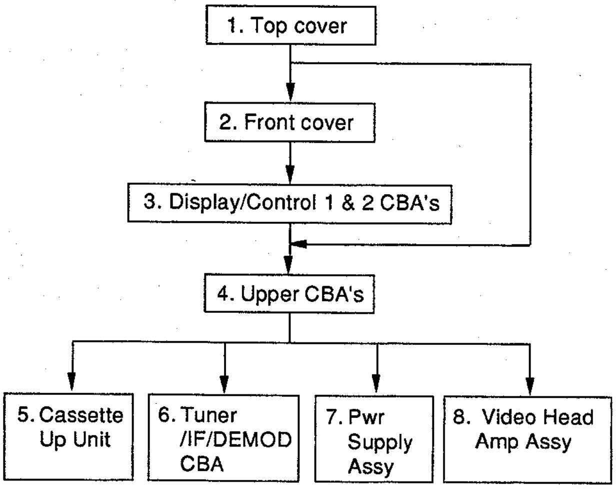

1. Top cover
2. Front cover
3. Display/Control 1 & 2 CBA's
4. Upper CBA's
5. Cassette Up Unit
6. Tuner /IF/DEMOD CBA
7. Pwr Supply Assy
8. Video Head Amp Assy

Fig. 8

6. 11 Removal of the top cover

- Undo the 2 screws (Fig. 9).
- Spread the top cover at the points where the 2 screws were removed, enough to clear the side indentations.
- Life the top cover up while pulling it back to remove it.

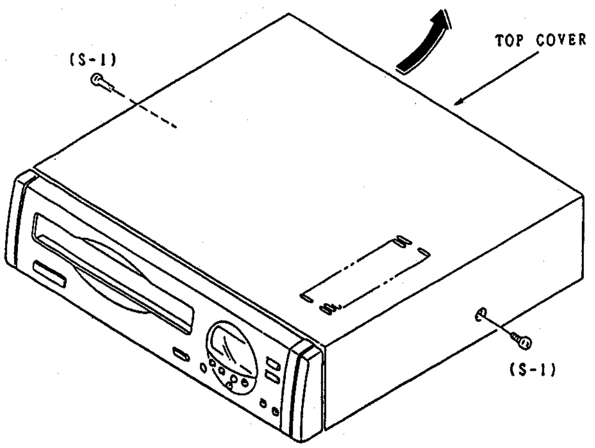

(S-1)
TOP COVER
(S-1)

Fig. 9

6. 12 Removal of the bottom plate

- Unscrew the 5 screws (Fig. 10)
- Remove the bottom plate.

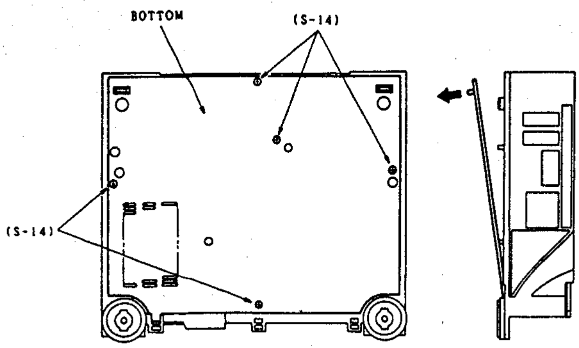

BOTTOM
(S-14)
(S-14)

Fig. 10

6. 13 Removal of the front cover

- Remove the screw on the top of the front panel (Fig. 11).
- Unlock the locking tabs on the right hand and left hand side of the front cover (Fig. 11).
- Remove the front cover.

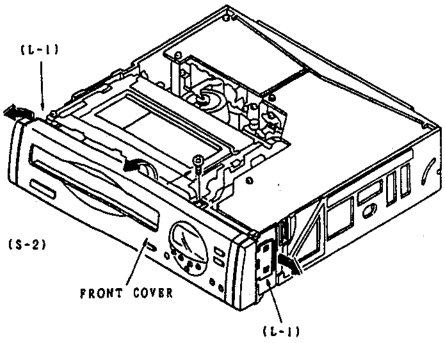

(L-1)
(S-2)
FRONT COVER
(L-1)

Fig. 11

6. 14 Service position of the upper CBA's

- Unscrew the 3 screws (Fig. 12).
- Unlock the locking tab.
- Lift up the upper CBA's slightly and remove the plug.
- Put the upper CBA's in the upright position.

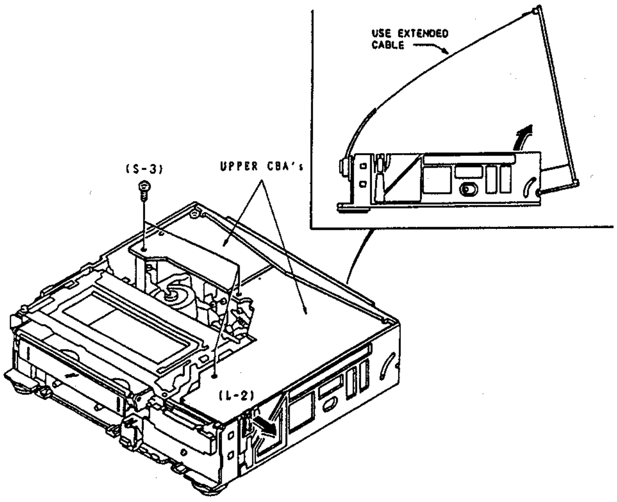

USE EXTENDED CABLE
(S-3)
UPPER CBA's
(L-2)

Fig. 12

6. 15 Removal of the power supply unit.

- Remove the fixing screw (Fig. 13).
- Take out the power supply unit in an upward direction.

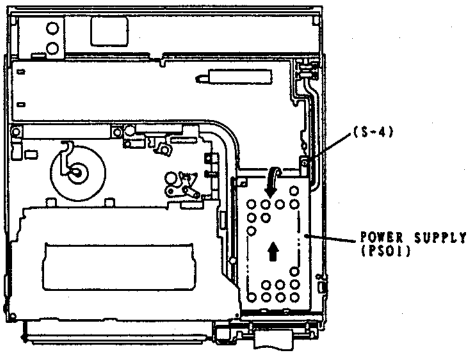

(S-4)
POWER SUPPLY
(PS01)

Fig. 13

6. 16 Removal of the lower CBA and wiring connections

Note: The lower CBA may be turned 90 degrees. The CBA is then accessible from both sides (Fig. 14).

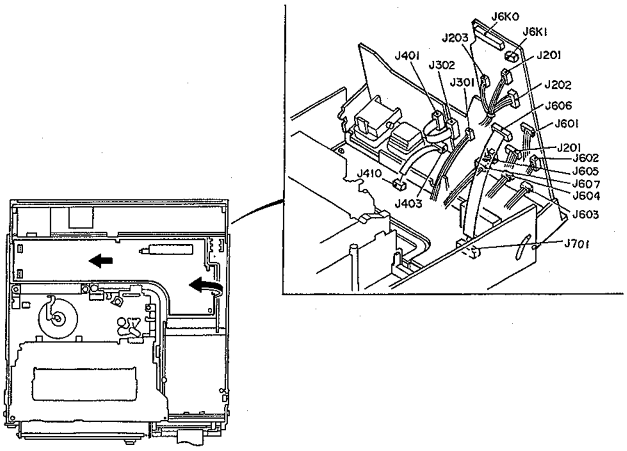

J6K0
J6K1
J203
J201
J401
J302
J301
J202
J606
J601
J201
J602
J605
J607
J604
J603
J410
J403
J701

Fig. 14

6. 17 Removal of the rear holder

Note: The rear holder with the CBA's will move in a downward direction (Fig. 15).

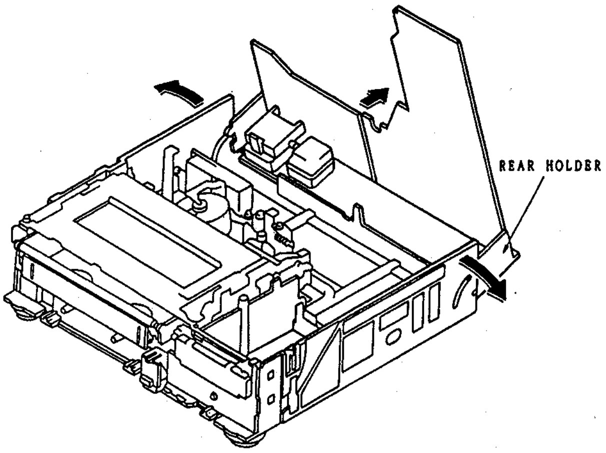

REAR HOLDER

Fig. 15

6. 18 Removal of the upper CBA's from the rear holder

- Undo the screws S-15 and S-16 (Fig. 16).
- Pull the CBA's out of the holder.

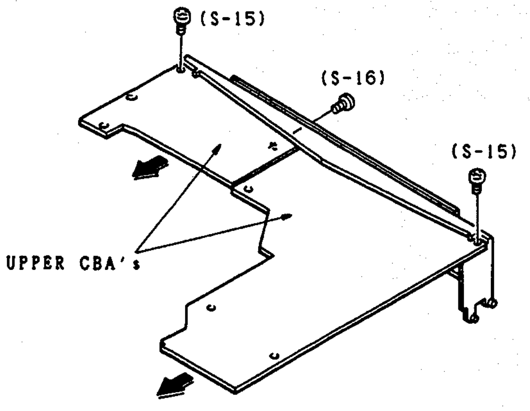

(S-15)
(S-16)
(S-15)
UPPER CBA's

Fig. 16

6. 19 Removal of the Video head amplifier

- Undo the 2 red screws (Fig. 17).
- Take out the head amplifier unit.

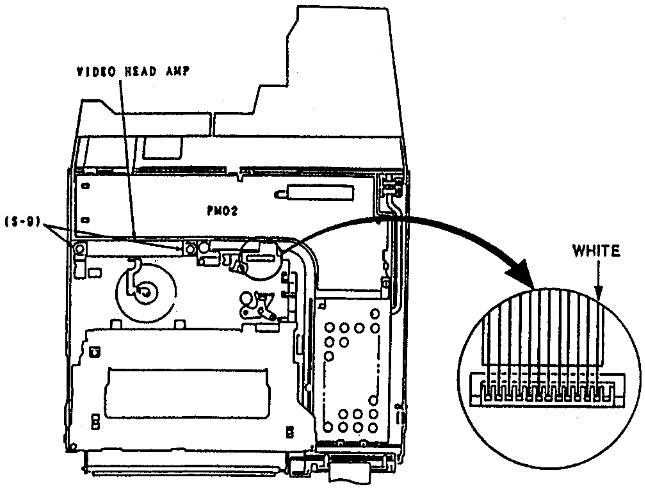

VIDEO HEAD AMP
(S-9)
PM02
WHITE

Fig. 17

6. 20 Removal of the tape deck

- Remove the screws S-8, S-10 and S-11 (Fig. 18).
- Disconnect the various plugs.
- Lift the tape deck out of the frame.

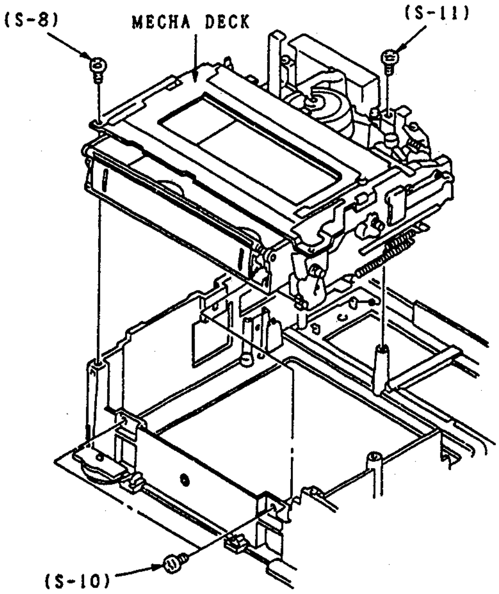

(S-8)
MECHA DECK
(S-11)
(S-10)

Fig. 18

6. 21 Removal of the Display/Control CBA's

- Remove the screws (Fig. 19).
- Unlock the 2 locking tabs.

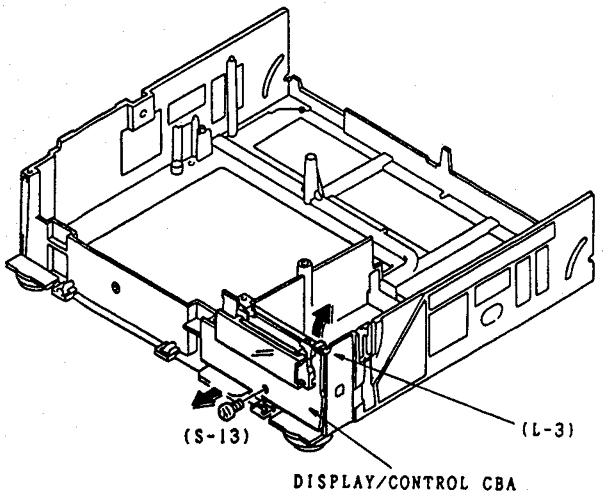

(S-13)
(L-3)
DISPLAY/CONTROL CBA

Fig. 19

6. 22 Removal of the Display/Control

- Remove the screws (Fig. 20).
- Take out the Mode SW CBA.

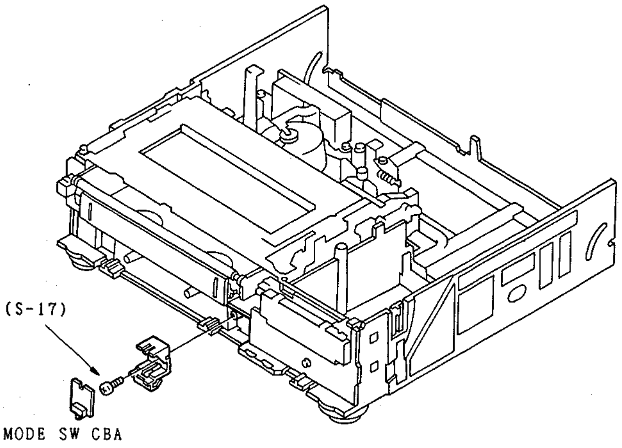
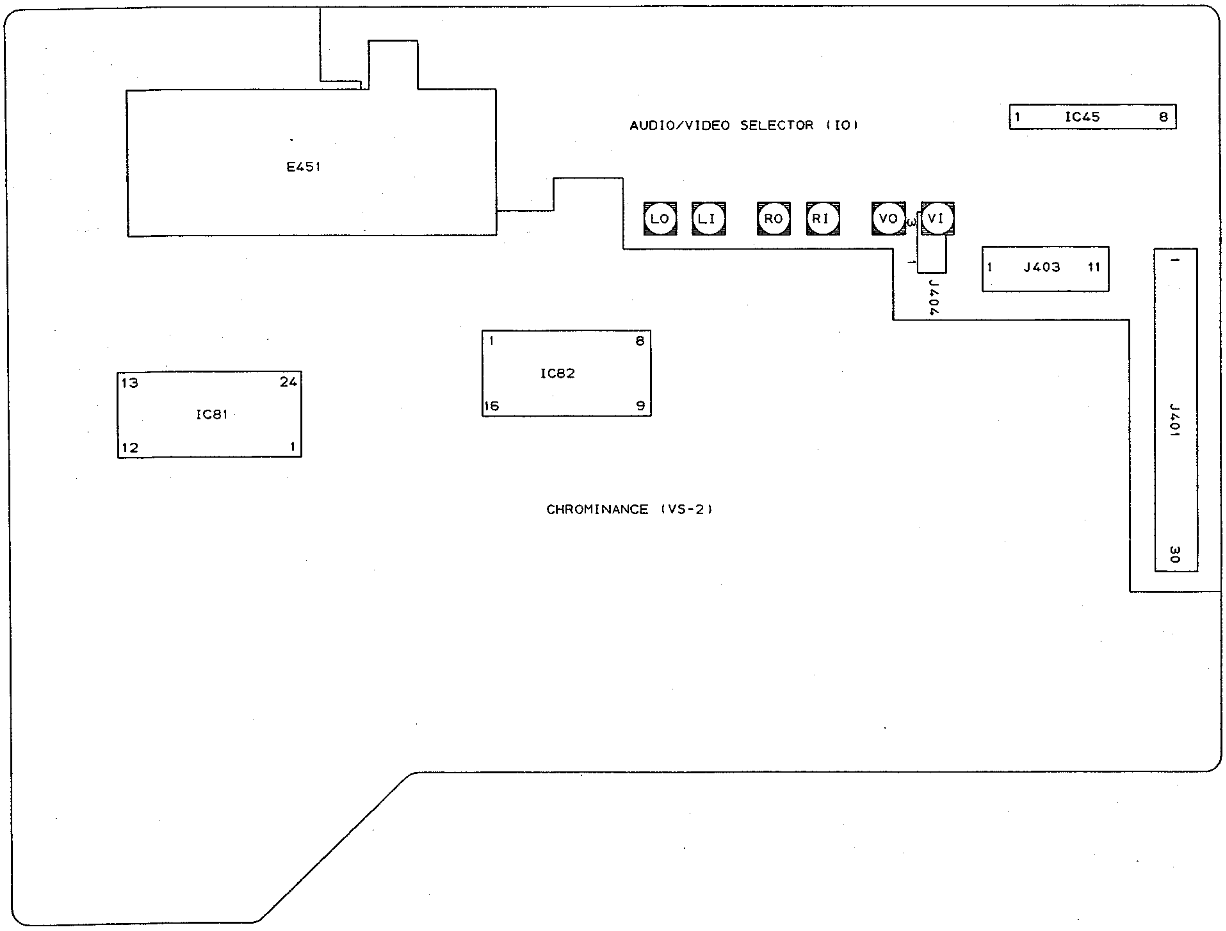

(S-17)
MODE SW CBA

Fig. 20

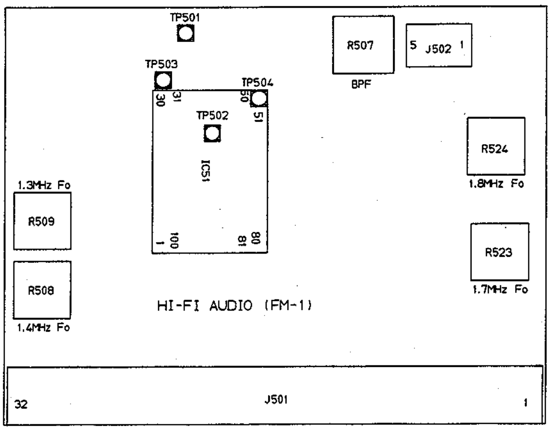
1. ELECTRICAL ADJUSTMENT INSTRUCTIONS

1-1 Test Point/Adjustment Locations

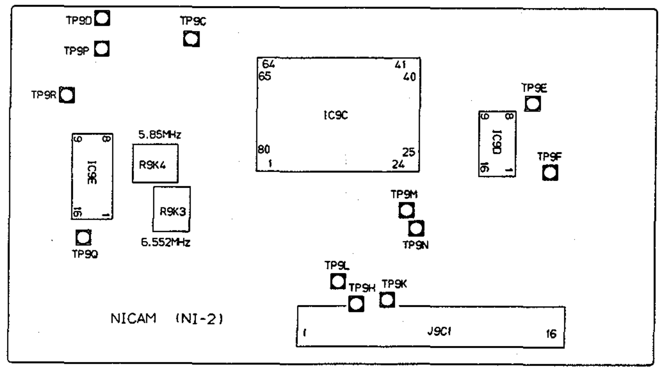
PI01 (Viewed from copper side)


AUDIO/VIDEO SELECTOR (IO)
E451
1 IC45 8
LO
LI
RO
RI
VO
VI
3
1
J404
1 J403 11
1
J401
30
1 IC82 8
16 9
13 IC81 24
12 1
CHROMINANCE (VS-2)

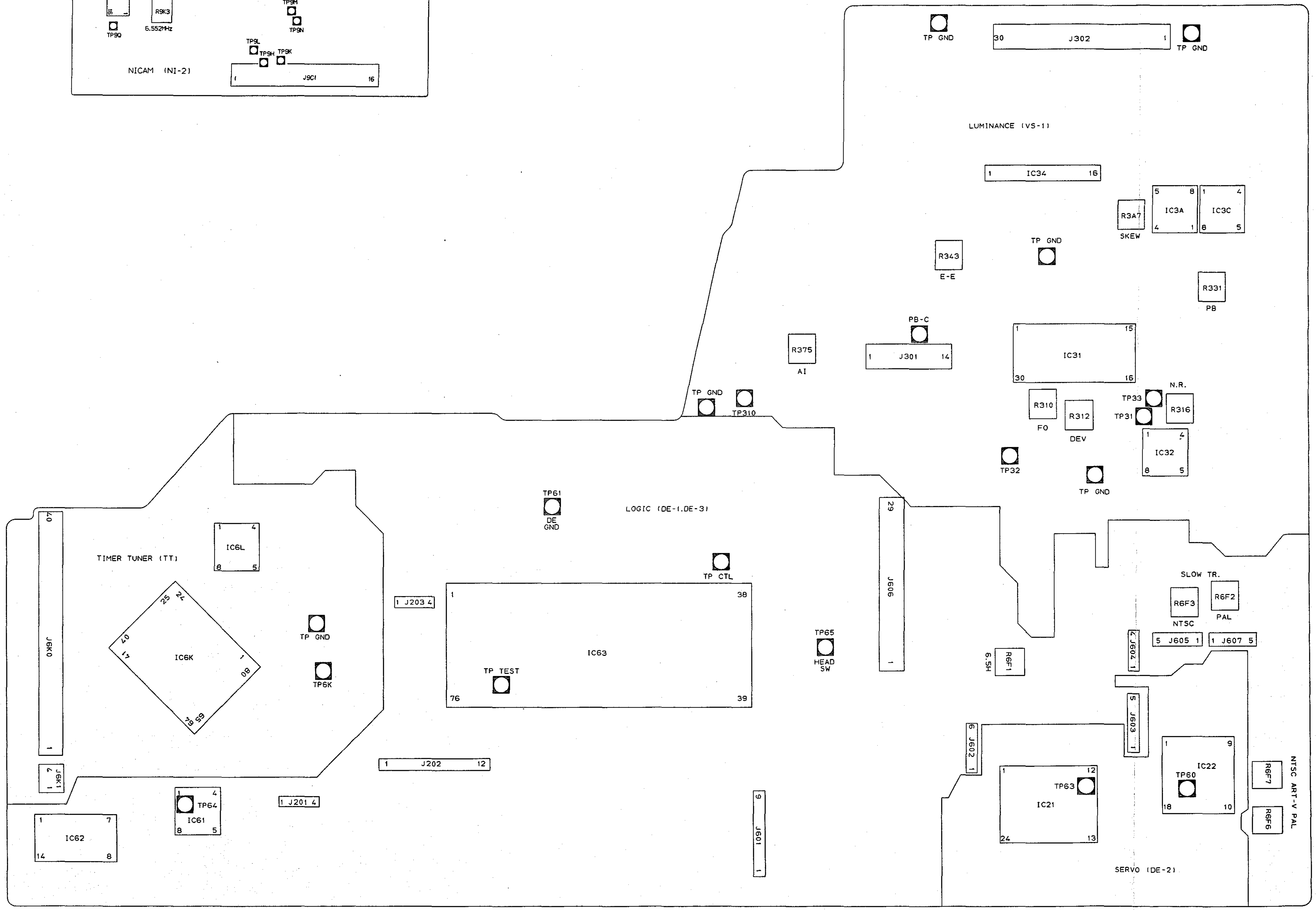
PF01 (Viewed from copper side) (VR742/VR842)


TP501
R507
BPF
5 J502 1
TP503
TP504
30
31
50
51
TP502
IC51
R524
1.8MHz Fo
1.3MHz Fo
R509
1
100
81
80
R523
1.7MHz Fo
R508
1.4MHz Fo
HI-FI AUDIO (FM-1)
32 J501 1

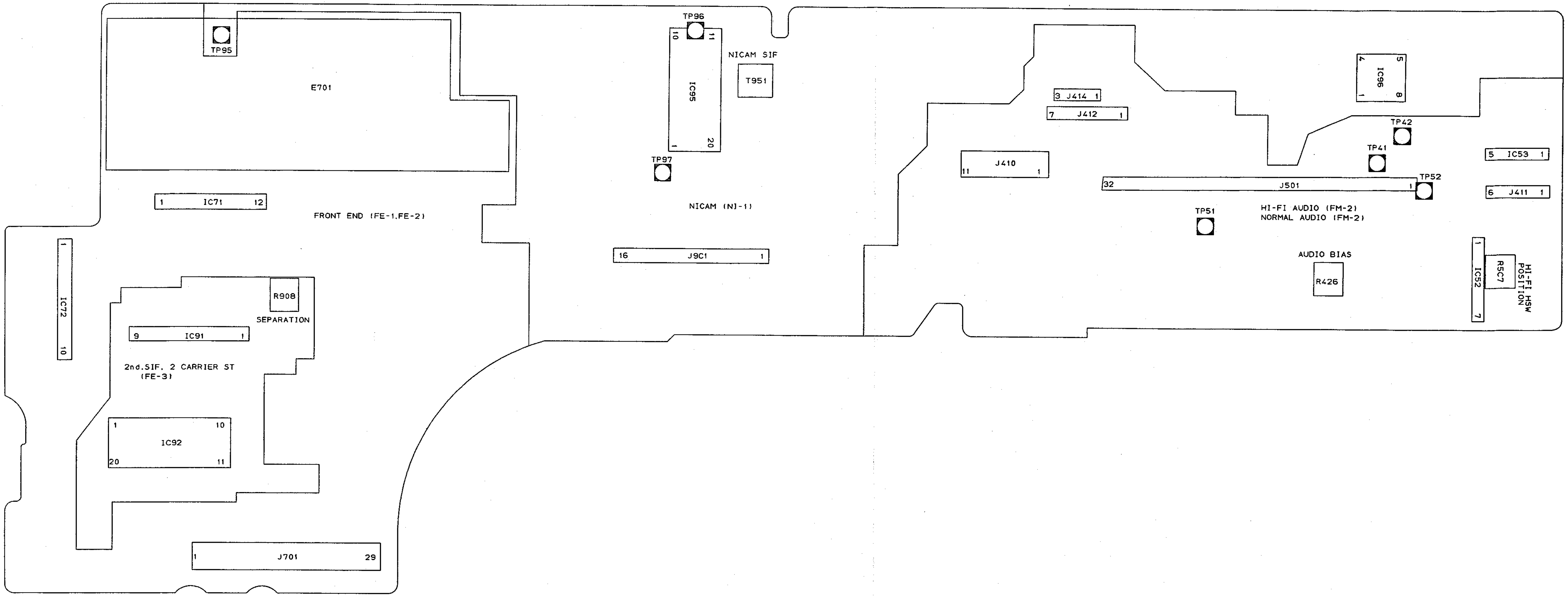
PN01 (Viewed from copper side) (VR742/VR842)


TP9D
TP9C
TP9P
TP9R
IC9C
TP9E
IC9D
TP9F
IC9E
5.85MHz
R9K4
R9K3
6.552MHz
TP9Q
TP9M
TP9N
TP9L
TP9H
TP9K
NICAM (NI-2)
J9C1

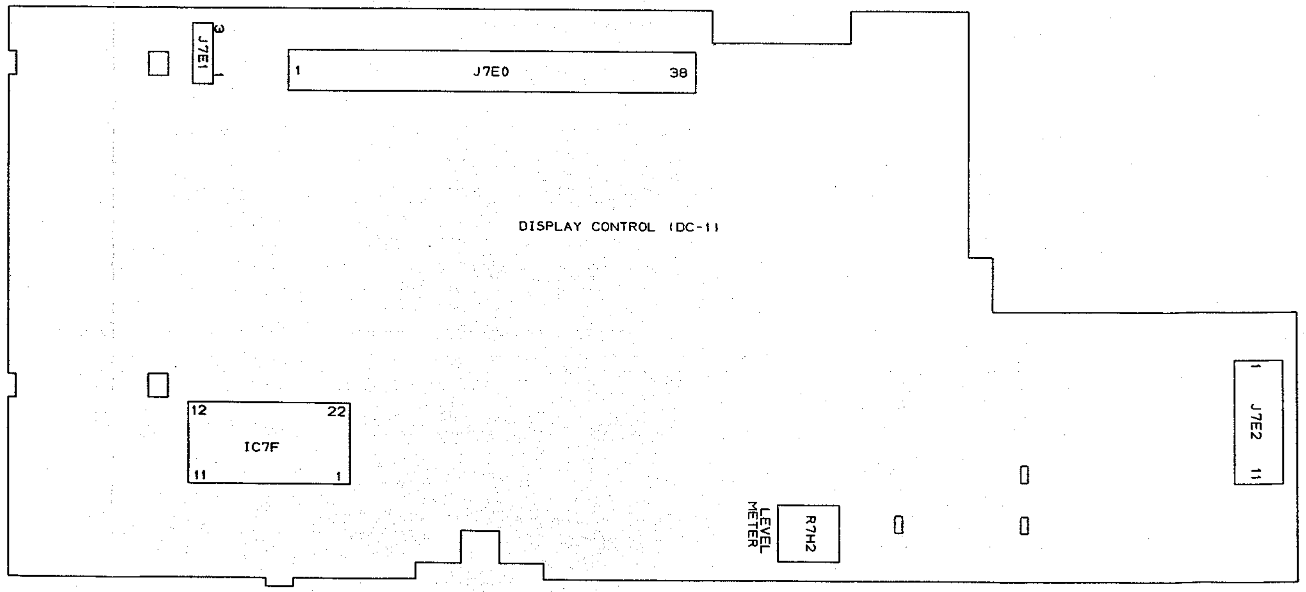
PM01 (Viewed from copper side)


TP GND
J302
TP GND
LUMINANCE (VS-1)
IC34
R3A7
SKEW
IC3A
IC3C
TP GND
R343
E-E
R331
PB
PB-C
R375
AI
J301
IC31
R310
FO
R312
DEV
TP33
TP31
N.R.
R316
IC32
TP32
TP GND
TP GND
TP310
TP61
DE GND
LOGIC (DE-1.DE-3)
J606
TIMER TUNER (TT)
IC6L
J6K0
IC6K
TP GND
TP6K
J203
TP CTL
IC63
TP TEST
TP65
HEAD SW
SLOW TR.
R6F3
NTSC
R6F2
PAL
6.5H
R6F1
J604
J605
J607
J603
J602
J202
J6K1
J201
TP64
IC61
IC62
J601
IC21
TP63
IC22
TP60
R6F7
R6F6
NTSC ART-V PAL
SERVO (DE-2)

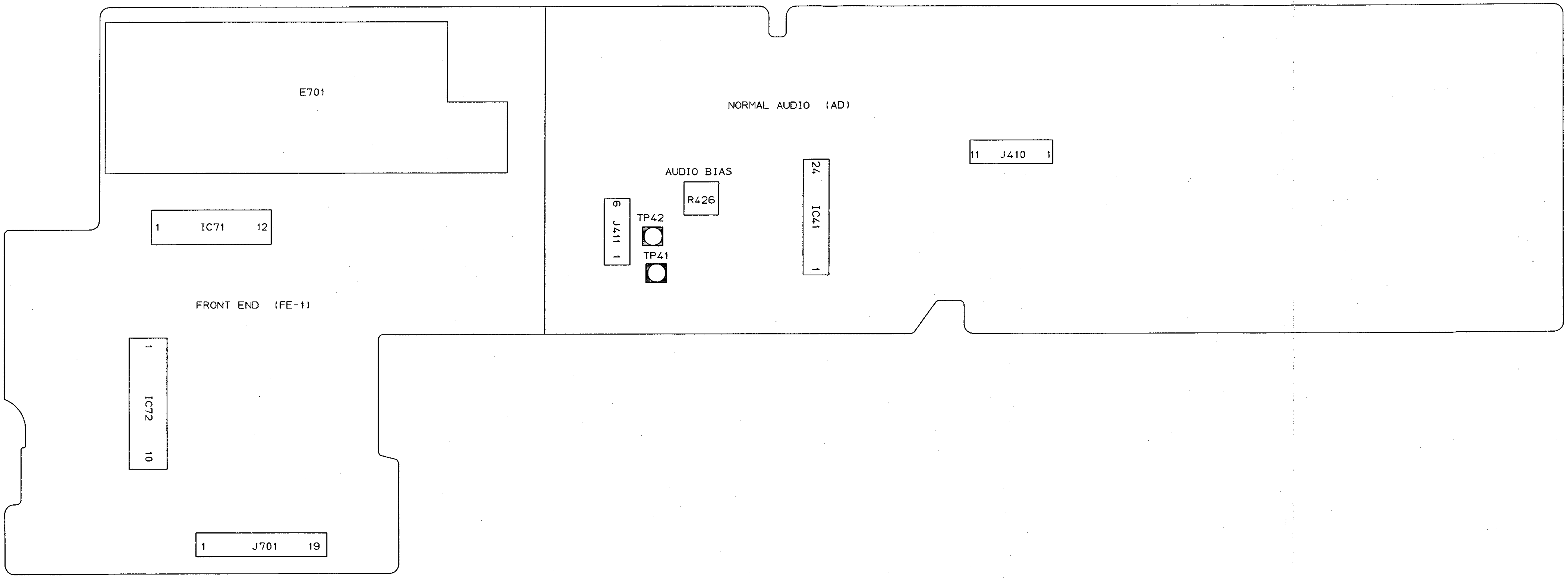
PM02 (Viewed from copper side) (VR742/VR842)


TP95
E701
TP96
10
11
IC95
1
20
NICAM SIF
T951
TP97
NICAM (NI-1)
16
J9C1
1
1
IC71
12
FRONT END (FE-1,FE-2)
1
IC72
10
R908
SEPARATION
9
IC91
1
2nd.SIF, 2 CARRIER ST
(FE-3)
1
10
IC92
20
11
1
J701
29
3 J414 1
7 J412 1
J410
11
1
32
J501
1
4
5
IC96
1
8
TP42
TP41
TP52
TP51
5 IC53 1
6 J411 1
HI-FI AUDIO (FM-2)
NORMAL AUDIO (FM-2)
AUDIO BIAS
R426
1
IC52
7
R5C7
HI-FI HSW
POSITION

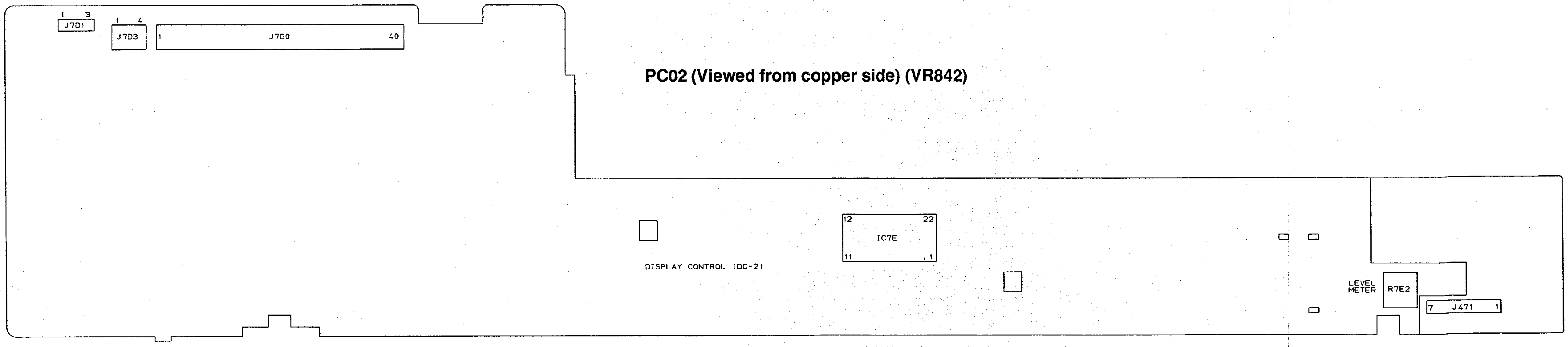
PC03 (Viewed from copper side) (VR742)


3
J7E1
1
1
J7E0
38
DISPLAY CONTROL (DC-1)
12
22
IC7F
11
1
LEVEL
METER
R7H2
1
J7E2
11

PM02 (Viewed from copper side) (VR642)


E701
NORMAL AUDIO (AD)
11 J410 1
AUDIO BIAS
R426
24 IC41 1
9 J411 1
TP42
TP41
1 IC71 12
FRONT END (FE-1)
1 IC72 10
1 J701 19

PC02 (Viewed from copper side) (VR842)


1 3
J7D1
1 4
J7D3
1 J7D0 40
12 22
IC7E
11 1
DISPLAY CONTROL (DC-2)
LEVEL METER
R7E2
7 J471 1

1. 2 TEST EQUIPMENT

- DVM (Digital voltmeter). Measuring range: 0.01 - 50V.
- Dual trace oscilloscope. Sensitivity: 0.001 - 50V/Div.
- Frequency counter: Frequency range 0 - 50MHz.
- Signal generator. Sine wave: 0 - 10MHz.
- PAL Video pattern generator.
- Colour TV Receiver or Monitor.
- Plastic Tip driver and non metallic screwdriver.
- VHS Alignment tape (4822 397 30103).

Attention:
Because a life chassis ground is present in the power supply part, an isolation transformer must be used. Also, in order to have the possibility to alter the input voltage slowly when troubleshooting in the power supply section, an adjustable isolation transformer is required.

1. 3 SERVO SECTION

1. 3. 1 Phase gap shiftier adjustment

TP	ADJ	MODE	INPUT	TAPE	M. EQ.	SPEC
TPVO TP65	R6F1	SP PLAY		VFM8100H3D	OSCILLO SCOPE	T=6.5H±0.5H

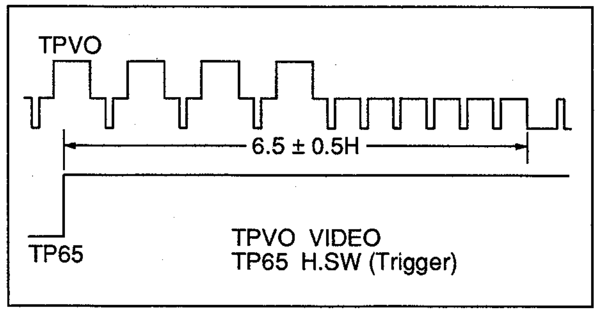


Fig. 1

- * Should be connected pin 70 of IC63 (MV6740VRDN) To GND
- Connect the oscilloscope to TPVO and TP65.
- Play-back the VHS Alignment Tape (VFM8100H3D).
- Adjust R6F1 so that the phase difference becomes 6.5 ± 0.5H of shown in Fig. 1.

1. 3. 2 Artificial V-SYNC adjustment

TP	ADJ	MODE	INPUT	TAPE	M. EQ.	SPEC
	R6E6	SELF RECORDING	PAL VIDEO SIGNAL	BLANK TAPE	TV MONI TOR	
	R6E7		NTSC VIDEO SIGNAL			

- Play back the just recorded portion (PAL SP, NTSC SP) and place the deck in STILL mode.
- Adjust the R6E6 (for PAL) so that V-dancing does not appear on the TV monitor. (dancing PAL SP STILL mode)
- Adjust the R6E7 (for NTSC) so that V-dancing does not appear on the TV monitor. (dancing NTSC SP STILL mode)

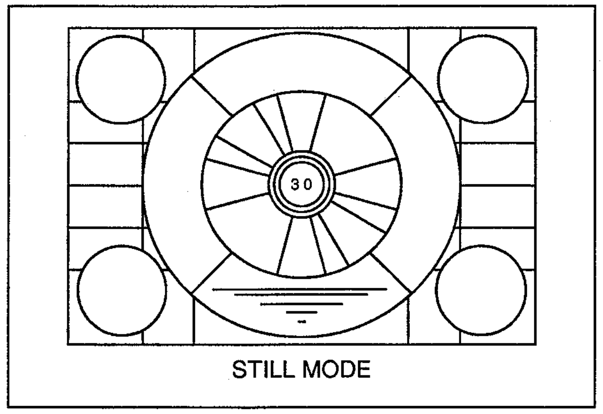


Fig. 2

1. 3. 3 Slow tracking FIX

TP	ADJ	MODE	INPUT	TAPE	M. EQ.	SPEC
	R6F2	SELF RECORDING	PAL VIDEO SIGNAL	BLANK TAPE	TV MONITOR	
	R6F3		NTSC VIDEO SIGNAL			

- * Should be connected Pin 70 of IC63 (MN6740VRDN) to GND.
- Record the PAL Video signal and play-back just recorded portion.
- Place the deck in slow mode.
- Adjust the R6F2 (PAL SP mode) so that noise disappear on TV screen.
- By the same way, adjust the R6F3.
- After adjusting, confirm that the position of tracking become intermediate portion between the point of noise appearance when tracking (+) bottom is pressed and when tracking (–) bottom is pressed.

1. 4 TUNER TIMER SECTION

TP	ADJ	MODE	INPUT	TAPE	M. EQ.	SPEC
TP6K	R6K6	STOP			FREQUENCY COUNTER	32.769kHz ± 0.1Hz

- Put the VCR in the stop mode.
- Set clock.
- Connect a frequency counter to TP6K.
- Adjust the frequency of the signal on TP6K to 32.769kHz ± 0.1Hz with C6K6.

1. 5 AUDIO SECTION

1. 5. 1 Normal Audio Bias

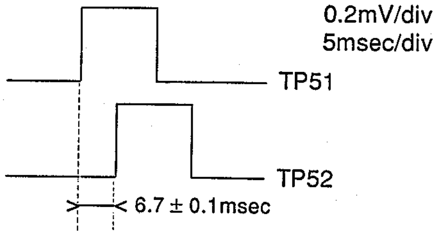
TP	ADJ	MODE	TAPE	M. EQ.	SPEC
TP41 (–) TP42 (+)	R426	SELF RECORDING	BLANK TAPE	MILLIVOLT METER	2.4mV RMS ± 0.1mV

- Connect the millivoltmeter to TP41 and TP42.
- Put the VCR in the SP record mode.
- Adjust the signal level on TP42 with R426 to 2.4 ± 0.1mV RMS on the millivoltmeter.

1. 5. 2 HiFi Audio HEAD SW Position

TP	ADJ	MODE	TAPE	M. EQ.	SPEC
TP51 (Video) TP52 (Audio)	R5C7	SP PLAY ON PAL	VFM8100HAD	OSCILLO SCOPE	6.7 ± 0.1msec

- Connect the oscilloscope to the TP51 and TP52.
- Make the VFM8100HAD play in the PAL mode.
- Adjust the phase difference of output waveform on the TP51 and TP52 with R5C7 to 6.7 ± 0.1msec on the oscilloscope.



1. 5. 3 HiFi Audio f_0

TP	ADJ	MODE	TAPE	M. EQ.	SPEC
TP501 (Lch) TP502 (Rch)	PAL R508 (Lch), R524 (Rch) NTSC R509 (LCH), R523 (RCH)	SELF RECORDING	BLANK TAPE	FREQUENCY COUNTER	PAL : 1.4MHz ± 50kHz (Lch) 1.8MHz ± 50kHz (Rch) NTSC : 1.3MHz ± 50kHz (Lch) 1.7MHz ± 50kHz (Rch)

- Connect the frequency counter to the TP501 and TP505.
- Set the VCR to recording condition in the NTSC SP mode, and adjust the frequency with R509 and R523 to the frequencies specified on the table above.
- After performing the procedure above, change the NTSC mode to the PAL SP mode, and then adjust the frequency with R508 and R524 to the frequencies specified on the table above.

1. 5. 4 HiFi Audio BPF

TP	ADJ	MODE	INPUT	M. EQ.	SPEC
TP503 (Lch) TP504 (Rch) TP502 (input)	R507	SP PLAY ON NTSC	1,505MHz 200mVp-p	OSCILLO SCOPE	————

- Supply the sine wave signal of the frequency 1,505MHz/level 200mVp-p from TP502.
- Change the model to NTSC PLAY BACK mode.
- Connect the oscilloscope to the TP503 and TP504, and adjust the amplitude level with R507 to the same level on both TP503 and TP504.

1. 5. 5 Level Meter

TP	ADJ	MODE	INPUT	M. EQ.	SPEC
————	R7E2 (VR842) R7H2 (VR742)	STOP	1kHz −10dB	————	————

- Suply the sine wave signal of the frequency 1 KHz/level −10dB to the audio RCA input.
- Set the VCR to "LINE" in the audio input mode.
- Adjust the stroke level with R7E2 (VR842) or R7H2 (VR742) to the same stroke level on both left and right channels of the level meter.

1. 6 LUMINANCE SECTION

1. 6. 1 E-E level

TP	ADJ	MODE	INPUT	TAPE	M. EQ.	SPEC
TPVO	R343	STOP	COLOUR BAR with 100 % WHITE		OSCILLO SCOPE	1.0Vp-p ± 0.05Vp-p

- Feed a PAL colour bar with white window signal to the VCR.
- Connect the oscilloscope to TPVO.
- Adjust the signal on TPVO to 1.0Vp-p with R343.

1. 6. 2 SYNC. TIP frequency

TP	ADJ	MODE	INPUT	TAPE	M. EQ.	SPEC
TP32	R310	SELF RECORDING		BLANK TAPE	FREQUENCY COUNTER	3.8MHz

- Put the VCR in the Recording mode.
- No input signal to the VCR.
- Connect a frequency counter to TP32.
- Adjust the frequency of the signal on TP32 to 3.8 ± 0.04MHz with R310.

1. 6. 3 Deviation

TP	ADJ	MODE	INPUT	TAPE	M. EQ.	SPEC
TP32	R312	SELF RECORDING	COLOUR BAR with 100 % WHITE	BLANK TAPE	OSCILLO SCOPE	0.21 ± 0.01µsec

- Put the VCR in the Recording mode.
- Feed a colour bar with 100% white colour bar to the VCR.
- Connect the oscilloscope to TP32.
- Set the sensitivity of the scope to 0.2V/Div., the time base to 50nsec./Div.
- Adjust A=0.21 ± 0.01µsec (Fig. 3) with R312.
- Adjust from the beginning of the sweep and measure the first line seen, which is the white window trace on the multiple wave form.
  Focus the scope on the first multiple waveform trace (Fig. 3)
- After completion of the adjustment self record a SP colour bar with 100% white.
- Play-back the portion just recorded and confirm the level at TPVO is 1.0± 0.05Vp-p.
- If the levels are not correct then confirm play-back video level and readjust the deviation again.

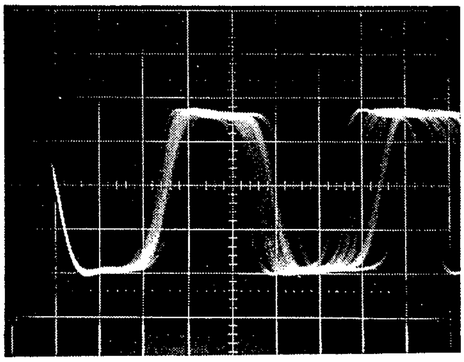


Fig. 3

1. 6. 4 PB level

TP	ADJ	MODE	INPUT	TAPE	M. EQ	SPEC
TPVO	R331	SP SELF RECORDING and PLAYBACK	COLOUR BAR with 100 % WHITE	BLANK TAPE	OSCILLO SCOPE	1.0Vp-p ± 0.05Vp-p

- Connect the oscilloscope to TPVO.
- Playback the just recorded portion.
- Adjust the signal on TPVO to 1.0Vp-p with R331.

1. 6. 5 AI Picture

TP	ADJ	MODE	INPUT	TAPE	M. EQ.	SPEC
TPVO	R375	SP SELF RECORDING and PLAYBACK	COLOUR BAR with 100 % WHITE	BLANK TAPE	DIGITAL VOLT METER (DC)	2.5V ± 0.05V

- Connect the digital volt meter to TP310.
- Playback the just recorded portion.
- Adjust the signal on TP310 to 2.5V with R375.

1. 6. 6 Noise cancel

TP	ADJ	MODE	INPUT	TAPE	M. EQ.	SPEC
TP31 TP33	R316	SP SELF RECORDING	COLOUR BAR	BLANK TAPE	OSCILLO SCOPE	WAVEFORM IS MINIZED

*Should be seted the oscilloscope to ADD mode.
- Record the PAL Video Signal and Playback just recorded portion.
- Adjust the TP316 so that the width (W) of signal is at a minimum.

1. 6. 7 Skew compensation

TP	ADJ	MODE	INPUT	TAPE	M. EQ.	SPEC
	R3A7	SP PLAY		VFM 8000HBD	TV MONITOR	

- Record the NTSC Video Signal and Playback just recorded portion.
- Adjust the R3A7 so that flicker disappear on TV Screen.

1. 7 NICAM SECTION

1. 7. 1 NICAM SIF Adjustment

TP	ADJ	MODE	INPUT	TAPE	M. EQ.	SPEC
TP96	T951	E-E	38.9MHz 90dBμV on TP95 3.8V on TP97-GND	————	OSCILLO SCOPE Power Supply	Minimum Voltage

- Connect a oscilloscope to TP96.
- Input the signal of 38.9MHz 90dBμV on TP95.
- Input the voltage of 3.8V between TP97 -GND by Power Supply.
- Adjust the voltage on TP96 with T951 to a minimum voltage on the oscilloscope.

1. 7. 2 5.85MHz Adjustment

TP	ADJ	MODE	INPUT	TAPE	M. EQ.	SPEC
TP9L	R9K4	E-E (PAL-BG)	5.8MHz 200mVp-p on TP9K	————	FREQUENCY COUNTER	5.8MHz ± 100Hz

- Disconnect the pin 1 of J9C1 from PM02.
- Connect the TP9S to GND.
- Connect the frequency counter to TP9L by 1 : 10 probe.
- Input the signal of 5.8MHz 200mVp-p TP9K.
- Adjust the frequency on TP9L with R9K4 to 5.8MHz± 100Hz on the frequency counter.

1. 7. 3 6.552MHz Adjustment

TP	ADJ	MODE	INPUT	TAPE	M. EQ.	SPEC
TP9L	R9K3	E-E (PAL-I)	6.5MHz 200mVp-p on TP9K	————	FREQUENCY COUNTER	6.552MHz ± 100Hz

- Disconnect the pin 1 of J9C1 from PM02.
- Connect the TP9S to GND.
- Connect the frequency counter to TP9L by 1 : 10 probe.
- Input the signal of 6.5MHz 200mVp-p TP9K.
- Adjust the frequency on TP9L with R9K3 to 6.552MHz ± 100Hz on the frequency counter.

1. 8 TUNER SECTION

1. 8. 1 2nd-SIF

TP	ADJ	MODE	INPUT	TAPE	M. EQ.	SPEC
TPRO	L902		1kHz SINE WAVE SIGNAL		HF PATTERN GENERATOR, OSCILLO SCOPE	MAXIMUM AMPLITUDE

- Connect a HF pattern generator which also provides an audio stereo test signal to the RF input of the VCR.
- Tune the VCR to the signal of the pattern generator.
- Set the audio part of the generator to 1kHz, R channel and pilot.
- Connect the oscilloscope to TPRO.
- Adjust L902 so that the 1kHz signal on TPRO has maximum amplitude.

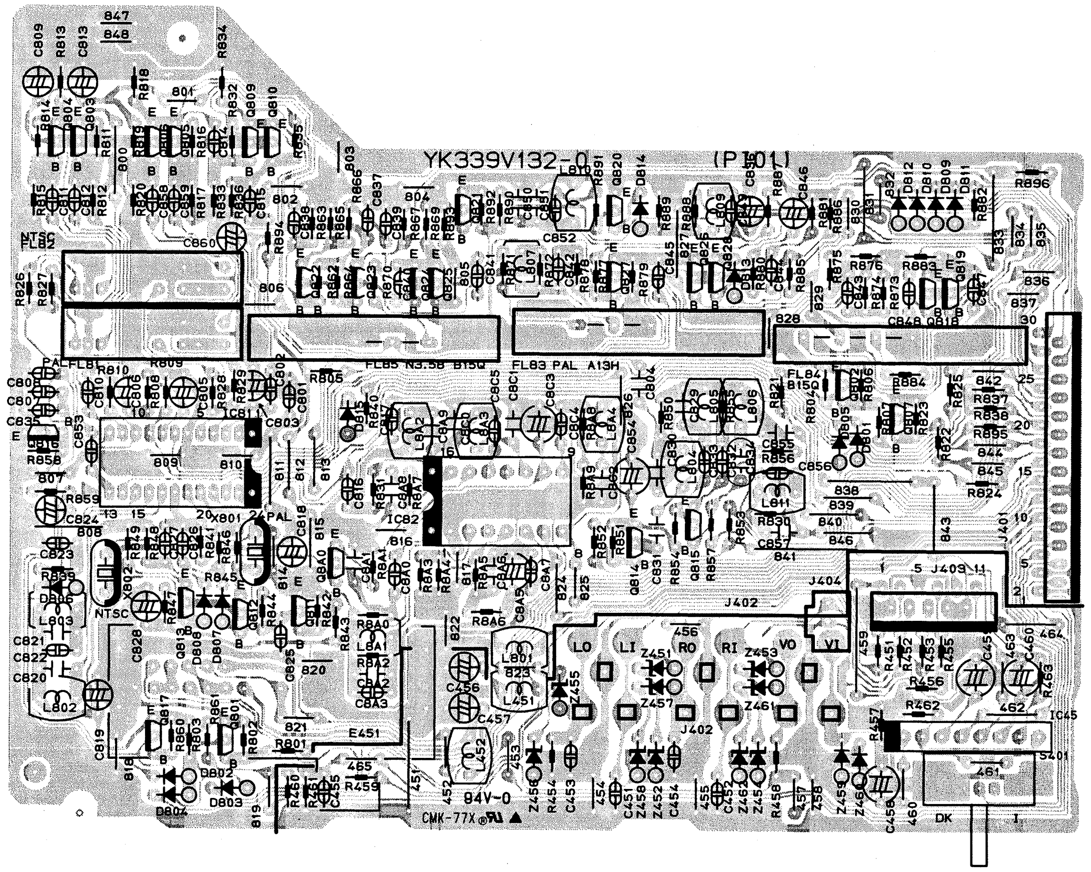
1. 8. 2 Channel separation

TP	ADJ	MODE	INPUT	TAPE	M. EQ.	SPEC
TPLO	R908		1kHz SINE WAVE SIGNAL		HF PATTERN GENERATOR, OSCILLO SCOPE	MANIMUM

- Connect a HF pattern generator which also provides an audio stereo test signal to the RF input of the VCR.
- Tune the VCR to the signal of the pattern generator.
- Set the audio part of the generator to 1kHz, L channel and pilot.
- Connect the oscilloscope to TPLO.
- Adjust R908 so that the amplitude of the signal on TPLO is minimum.

AUDIO/VIDEO SELECTOR P.C.B DRAWING PI01

"Inserted components are dependent on the set type"



CAPACITORS	
C8A0	C2
C8A1	C2
C8A2	D2
C8A3	D2
C8A5	C3
C8A6	C3
C8A7	C3
C8A8	C2
C8A9	C2
C8C0	C3
C8C1	C3
C8C2	C3
C8C3	C3
C8C4	C3
C8C5	C3
C451	D3
C452	D3
C453	D3
C454	D3
C455	D2
C456	D3
C457	D3
C458	D4
C459	D4
C460	D4
C801	C2
C802	C2
C803	C2
C804	C3
C805	C2
C806	C2
C807	C1
C808	C1
C809	B1
C810	C2
C811	B1
C812	B1
C813	B1
C814	B2
C815	B2
C816	C2
C817	C2
C818	C2
C819	D2
C820	D1
C821	D1
C822	D1
C823	C1
C824	C1
C825	D2
C826	C2
C827	C2
C828	D2
C829	C3
C830	C3
C831	C3
C832	C3
C833	C3
C834	C3
C835	C1
C836	B3
C837	B2
C838	B2
C839	B2
C840	C2
C841	C3
C842	C3
C843	C4
C844	C3
C845	B3
C846	B3
C847	C4
C848	C4
C849	B3
C850	B3
C851	B3
C852	B3
C853	C1
C854	C3
C855	C3
C856	C3
C857	C3
C858	B2
C859	B2
C860	B2

DIODES	
D801	C4
D802	D2
D803	D2
D804	D2
D805	C4
D806	C1
D807	D2
D808	D2
D809	B4
D810	B4
D811	B4
D812	B4
D813	C3
D814	B3
D815	C2

RF MODULATOR	
E451	D2

FILTERS	
FL83	C3
FL84	C3
FL85	C2

IC's	
IC45	D4
IC81	C2
IC82	C2

CONNECTORS	
J401	C4
J402	D3
J403	C4
J404	C3

COILS	
L8A1	D2
L8A2	C2
L8A3	C3
L8A4	C3
L451	D3
L452	D3
L801	D3
L802	D1
L803	C1
L804	C3
L805	C3
L806	C3
L807	C3
L809	B3
L810	B3
L811	C3

TRANSISTORS	
Q8A0	C2
Q801	D2
Q802	C4
Q803	B1
Q804	B1
Q805	B2
Q806	B2
Q807	C4
Q809	B2
Q810	B2
Q811	C2
Q812	C2
Q813	D2
Q814	C3
Q815	C3
Q816	C1
Q817	D2
Q818	C4
Q819	C4
Q820	B3
Q821	B3
Q822	C2
Q823	C2
Q824	C2
Q825	C2
Q826	B3
Q827	C3
Q828	B3

RESISTORS	
R8A0	C2
R8A1	C2
R8A2	D2
R8A3	C2
R8A4	C2
R8A5	C3
R8A6	C3
R8A7	C2
R8A8	C3
R8A9	C3
R451	D4
R452	D4
R453	D4
R454	D3
R455	D4
R456	D4
R457	D4
R458	D3
R459	D2
R460	D2
R461	D2
R462	D4
R463	D4
R801	D2
R802	D2
R803	D2
R804	C3
R805	C2
R806	C4
R807	C4
R808	C2
R809	C2
R810	C2
R811	B2
R812	B2
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R815	B1
R816	B2
R817	B2
R818	B2
R819	B2
R820	B2
R821	C3
R822	C4
R823	C4
R824	C4
R825	C4
R826	C1
R827	C1
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R834	B2
R835	B2
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R845	C2
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R849	C2
R850	C3
R851	C3
R852	C3
R853	C3
R854	C3
R855	C3
R856	C3
R857	C3
R858	C1
R859	C1
R860	D2
R861	D2
R862	C2
R863	B2
R864	C2
R865	B2
R866	B2
R867	B2
R869	B2
R870	C2
R871	C3
R872	C3
R873	C4
R874	C4
R875	C3
R876	B4
R877	C3
R878	C3
R879	C3
R880	C3
R881	B3
R882	B4
R883	B4
R884	C4
R885	C3
R886	B4
R887	B3
R888	B3
R889	B3
R890	B3
R891	B3
R892	B3
R893	B2
R894	B2
R895	C4
R896	B4

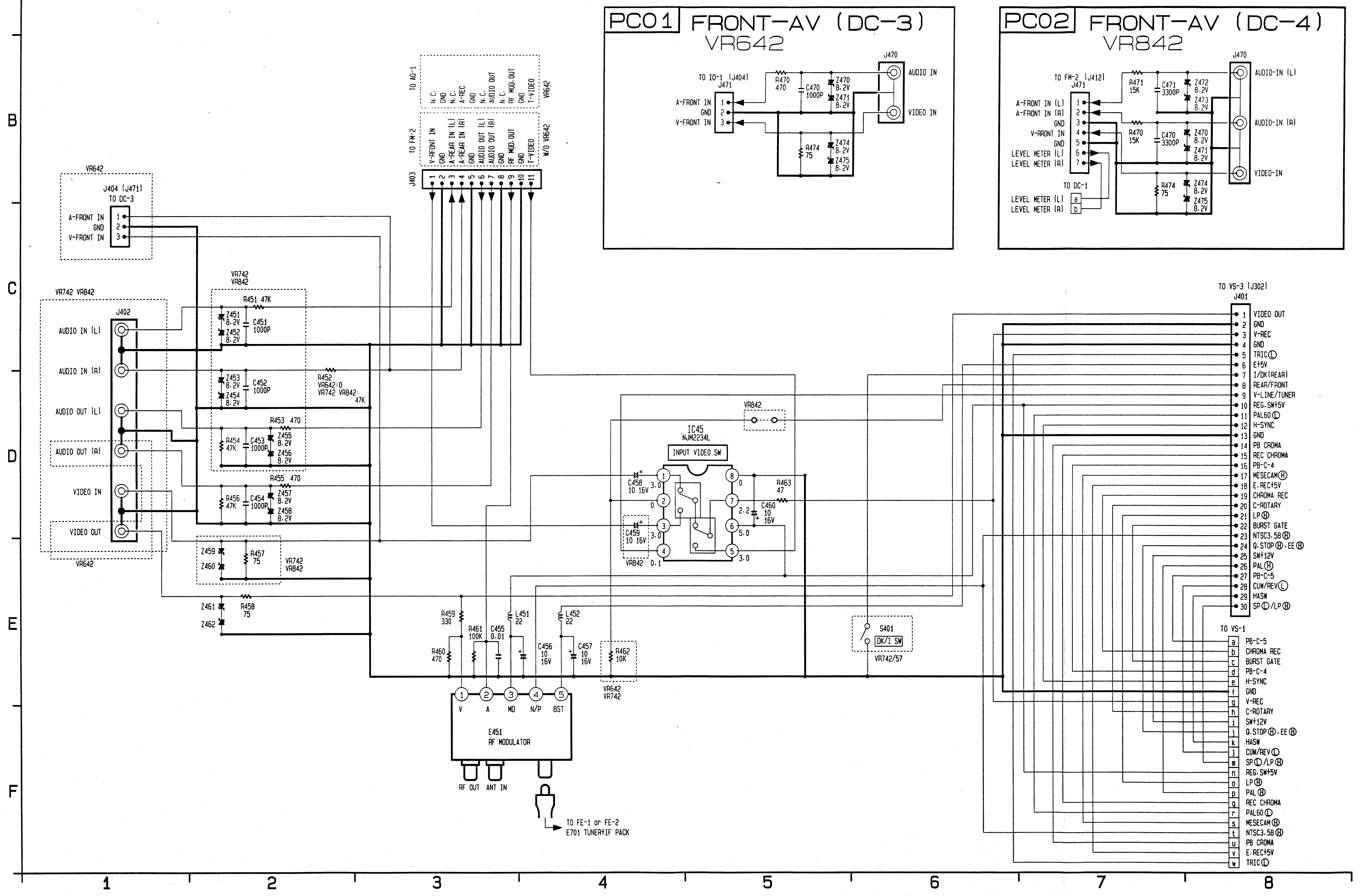
SWITCH	
S401	D4

X-TAL's	
X801	C2
X802	C2

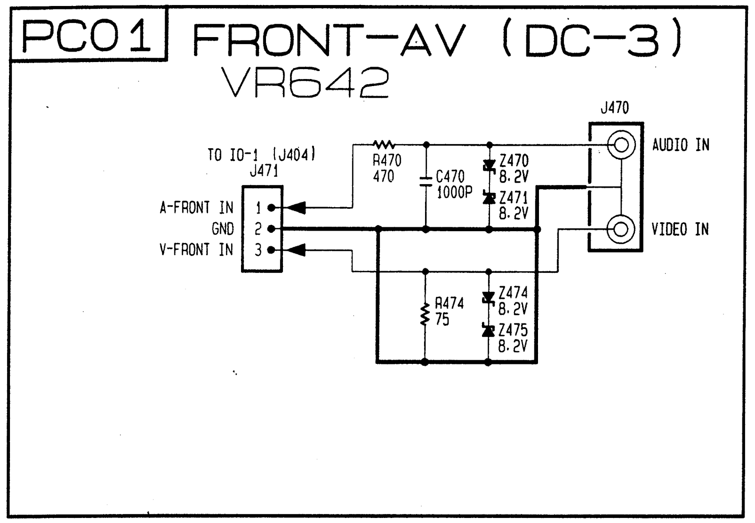
ZENERS	
Z451	D3
Z452	D3
Z453	D3
Z454	D3
Z455	D3
Z456	D3
Z457	D3
Z458	D3
Z459	D4
Z460	D4
Z461	D3
Z462	D3

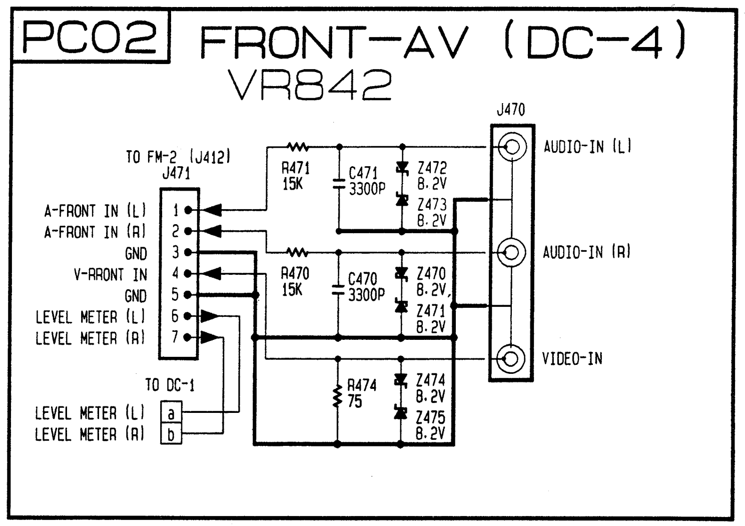
AUDIO/VIDEO SELECTOR SCHEMATIC DIAGRAM (IO-1)

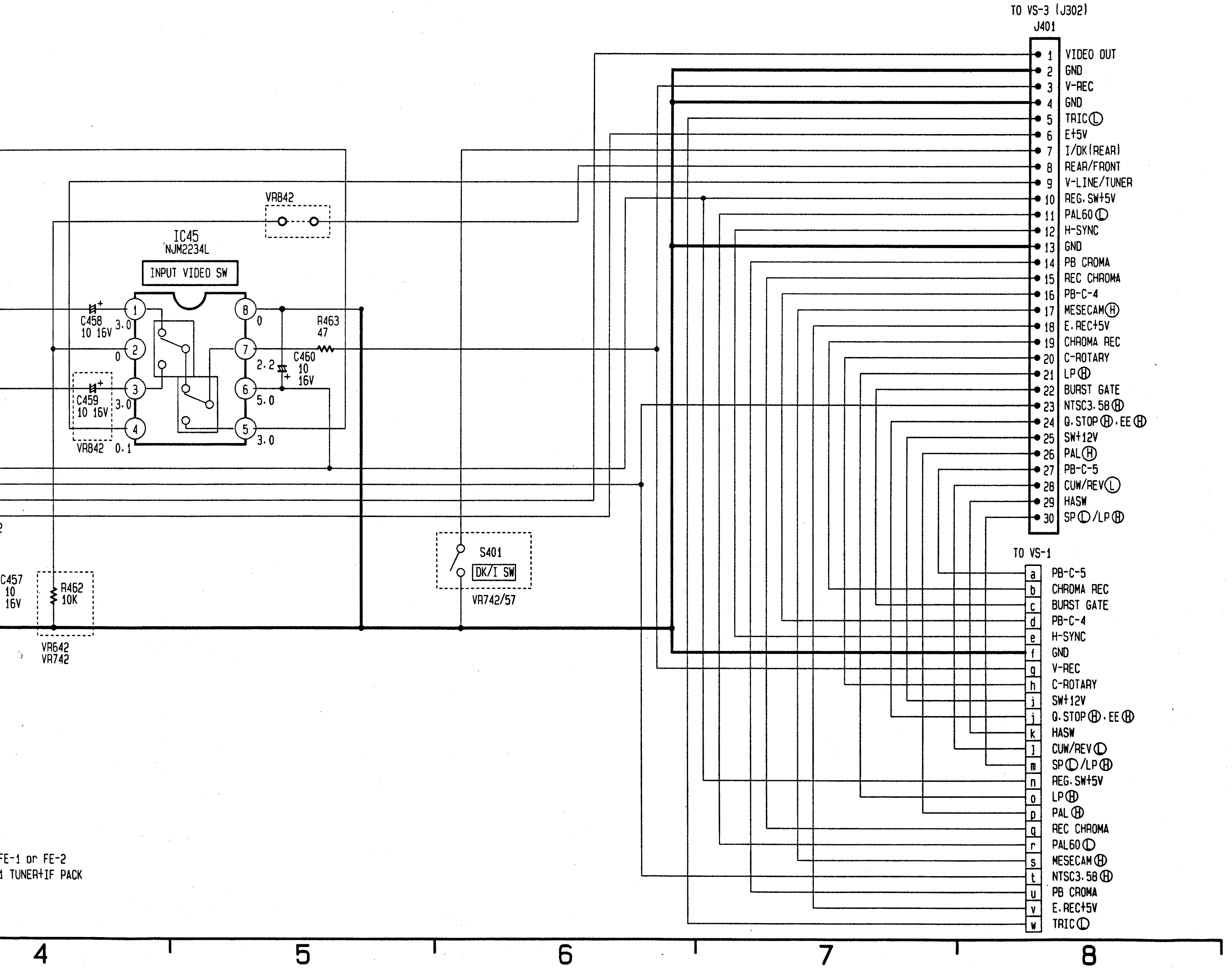
PIO1


A
B
C
D
E
F
1
2
3
4
5
6
7
8
PC01
FRONT-AV (DC-3)
VR642
TO IO-1 (J404)
J471
A-FRONT IN
GND
V-FRONT IN
R470
470
C470
1000P
Z470
8.2V
Z471
8.2V
R474
75
Z474
8.2V
Z475
8.2V
J470
AUDIO IN
VIDEO IN
PC02
FRONT-AV (DC-4)
VR842
TO FM-2 (J412)
J471
A-FRONT IN (L)
A-FRONT IN (R)
GND
V-RRONT IN
GND
LEVEL METER (L)
LEVEL METER (R)
R471
15K
C471
3300P
Z472
8.2V
Z473
8.2V
R470
15K
C470
3300P
Z470
8.2V
Z471
8.2V
R474
75
Z474
8.2V
Z475
8.2V
TO DC-1
LEVEL METER (L)
LEVEL METER (R)
a
b
J470
AUDIO-IN (L)
AUDIO-IN (R)
VIDEO-IN
TO AD-1
N.C.
GND
N.C.
A-REC
GND
N.C.
AUDIO OUT
N.C.
RF MOD.OUT
GND
T-VIDEO
VR642
TO FM-2
V-RFONT IN
GND
A-REAR IN (L)
A-REAR IN (R)
GND
AUDIO OUT (L)
AUDIO OUT (R)
GND
RF MOD.OUT
GND
T-VIDEO
W/O VR642
J403
VR642
J404 (J471)
TO DC-3
A-FRONT IN
GND
V-FRONT IN
VR742 VR842
J402
AUDIO IN (L)
AUDIO IN (R)
AUDIO OUT (L)
AUDIO OUT (R)
VIDEO IN
VIDEO OUT
VR642
VR742
VR842
R451 47K
Z451
8.2V
Z452
8.2V
C451
1000P
Z453
8.2V
Z454
8.2V
C452
1000P
R452
VR642:0
VR742 VR842:
47K
R453 470
R454
47K
C453
1000P
Z455
8.2V
Z456
8.2V
R455 470
R456
47K
C454
1000P
Z457
8.2V
Z458
8.2V
Z459
Z460
R457
75
VR742
VR842
Z461
Z462
R458
75
R459
330
R461
100K
C455
0.01
L451
22
L452
22
R460
470
C456
10
16V
C457
10
16V
R462
10K
VR642
VR742
E451
RF MODULATOR
V
A
MD
N/P
BST
RF OUT
ANT IN
TO FE-1 or FE-2
E701 TUNER+IF PACK
VR842
IC45
NJM2234L
INPUT VIDEO SW
C458
10 16V
C459
10 16V
VR842
3.0
0
3.0
0.1
0
2.2
5.0
3.0
R463
47
C460
10
16V
S401
DK/I SW
VR742/57
TO VS-3 (J302)
J401
1 VIDEO OUT
2 GND
3 V-REC
4 GND
5 TRIC Ⓛ
6 E+5V
7 I/DK(REAR)
8 REAR/FRONT
9 V-LINE/TUNER
10 REG.SW+5V
11 PAL60 Ⓛ
12 H-SYNC
13 GND
14 PB CROMA
15 REC CHROMA
16 PB-C-4
17 MESECAM Ⓗ
18 E.REC+5V
19 CHROMA REC
20 C-ROTARY
21 LP Ⓗ
22 BURST GATE
23 NTSC3.58 Ⓗ
24 Q.STOP Ⓗ.EE Ⓗ
25 SW+12V
26 PAL Ⓗ
27 PB-C-5
28 CUW/REV Ⓛ
29 HASW
30 SP Ⓛ/LP Ⓗ
TO VS-1
a PB-C-5
b CHROMA REC
c BURST GATE
d PB-C-4
e H-SYNC
f GND
g V-REC
h C-ROTARY
i SW+12V
j Q.STOP Ⓗ.EE Ⓗ
k HASW
l CUW/REV Ⓛ
m SP Ⓛ/LP Ⓗ
n REG.SW+5V
o LP Ⓗ
p PAL Ⓗ
q REC CHROMA
r PAL60 Ⓛ
s MESECAM Ⓗ
t NTSC3.58 Ⓗ
u PB CROMA
v E.REC+5V
w TRIC Ⓛ

OR SCHEMATIC DIAGRAM (IO-1) PIO1


PC01 FRONT-AV (DC-3)
VR642
TO IO-1 (J404)
J471
A-FRONT IN
GND
V-FRONT IN
R470 470
C470 1000P
Z470 8.2V
Z471 8.2V
R474 75
Z474 8.2V
Z475 8.2V
J470
AUDIO IN
VIDEO IN


PC02 FRONT-AV (DC-4)
VR842
TO FM-2 (J412)
J471
A-FRONT IN (L)
A-FRONT IN (R)
GND
V-FRONT IN
GND
LEVEL METER (L)
LEVEL METER (R)
TO DC-1
LEVEL METER (L)
LEVEL METER (R)
R471 15K
C471 3300P
Z472 8.2V
Z473 8.2V
R470 15K
C470 3300P
Z470 8.2V
Z471 8.2V
R474 75
Z474 8.2V
Z475 8.2V
J470
AUDIO-IN (L)
AUDIO-IN (R)
VIDEO-IN


TO VS-3 (J302)
J401
1 VIDEO OUT
2 GND
3 V-REC
4 GND
5 TRIC(L)
6 E+5V
7 I/DK(REAR)
8 REAR/FRONT
9 V-LINE/TUNER
10 REG.SW+5V
11 PAL60(L)
12 H-SYNC
13 GND
14 PB CROMA
15 REC CHROMA
16 PB-C-4
17 MESECAM(H)
18 E.REC+5V
19 CHROMA REC
20 C-ROTARY
21 LP(H)
22 BURST GATE
23 NTSC3.58(H)
24 Q.STOP(H).EE(H)
25 SW+12V
26 PAL(H)
27 PB-C-5
28 CUW/REV(L)
29 HASW
30 SP(L)/LP(H)
TO VS-1
a PB-C-5
b CHROMA REC
c BURST GATE
d PB-C-4
e H-SYNC
f GND
g V-REC
h C-ROTARY
i SW+12V
j Q.STOP(H).EE(H)
k HASW
l CUW/REV(L)
m SP(L)/LP(H)
n REG.SW+5V
o LP(H)
p PAL(H)
q REC CHROMA
r PAL60(L)
s MESECAM(H)
t NTSC3.58(H)
u PB CROMA
v E.REC+5V
w TRIC(L)
VR842
IC45
NJM2234L
INPUT VIDEO SW
C458 10 16V
C459 10 16V
VR842
R463 47
C460 10 16V
3.0
0
2.2
5.0
3.0
0.1
S401
DK/I SW
VR742/57
C457 10 16V
R462 10K
VR642
VR742
FE-1 or FE-2
1 TUNER+IF PACK
4
5
6
7
8

CAPACITORS

C451	C2
C452	D2
C453	D2
C454	D2
C455	E3
C456	E4
C457	E4
C458	D4
C459	D4
C460	D5
C470	B5 (VR642)
C470	B7 (VR842)
C471	B7

RF MODULATOR

E451	F3

IC

IC45	D5

CONNECTORS

J401	C8
J402	C1
J403	B3
J404	B1
J470	B6 (VR642)
J470	B8 (VR842)
J471	B5 (VR642)
J471	B7 (VR842)

COILS

L451	E4
L452	E4

RESISTORS

R450	E3
R451	C2
R452	D2
R453	D2
R454	D2
R455	D2
R456	D2
R457	E2
R458	E2
R459	E3
R460	E3
R461	E3
R462	E4
R463	D5
R470	B5 (VR642)
R470	B7 (VR842)
R471	B7
R474	B5 (VR642)
R474	B7 (VR842)

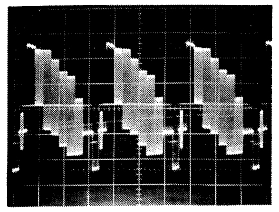
SWITCH

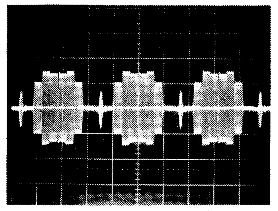
S401	E6

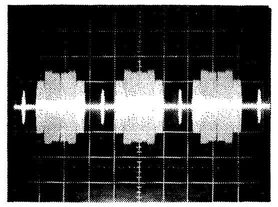
ZENERS

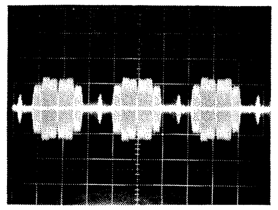
Z451	C2
Z452	C2
Z453	D2
Z454	D2
Z455	D2
Z456	D2
Z457	D2
Z458	D2
Z459	E2
Z460	E2
Z461	E2
Z462	E2
Z470	B5 (VR642)
Z470	B8 (VR842)
Z471	B5 (VR642)
Z471	B8 (VR842)
Z472	B8
Z473	B8
Z474	B8 (VR642)
Z474	B5 (VR842)
Z475	C8 (VR642)
Z475	B5 (VR842)

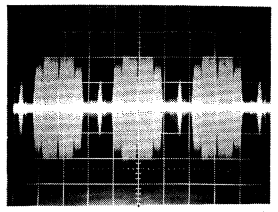
CHROMINANCE SCHEMATIC DIAGRAM (

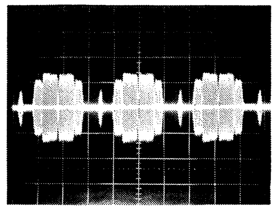

⑳IC81 Pin21 REC SP
200mV/Div. 20µsec/Div.

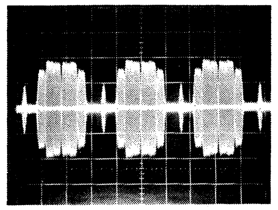

㉑IC81 Pin3 REC SP
50mV/Div. 20µsec/Div.

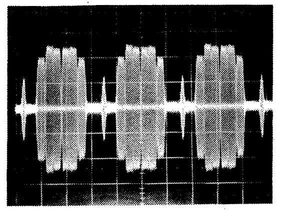

㉒IC81 Pin9 REC SP
200mV/Div. 20µsec/Div.


㉓IC81 Pin7 PB SP
200mV/Div. 20µsec/Div.


㉔IC81 Pin5 PB SP
200mV/Div. 20µsec/Div.


㉕IC81 Pin24 PB SP
100mV/Div. 20µsec/Div.


㉖IC81 Pin23 PB SP
200mV/Div. 20µsec/Div.


㉗IC82 Pin9 PB SP
200mV/Div. 20µsec/Div.

CAPACITORS	
C8A0	B6
C8A1	B6
C8A2	B6
C8A5	B7
C8A6	B7
C8A7	A7
C8A8	A6
C8A9	A6
C8C0	A6
C8C1	A7
C8C2	A7
C8C3	A7
C8C4	A7
C8C5	A6
C801	D4
C802	D4
C803	D4
C804	D4
C805	D4
C806	D5
C807	D5
C808	D5
C809	D5
C810	D6
C811	C6
C812	C6
C813	D8
C814	C2
C815	C3
C816	A4
C817	B4
C818	B4
C819	B4
C820	B4
C821	B5
C822	B5
C823	B5
C824	B5
C825	A4
C826	B4
C827	B5
C828	A5
C829	B8
C830	B7
C831	B7
C832	B8
C833	B8
C834	B8
C835	A7
C853	C5
C854	B7
C855	D6
C856	E6
C857	D6
C858	D7
C859	C8
C862	A5

DIODES	
D801	D3
D802	D5
D803	D5
D804	D5
D805	E4
D806	B5
D807	A4
D808	A5
D815	B5

FILTERS	
FL81	C7
FL82	C5

IC's	
IC81	C3
IC82	A6

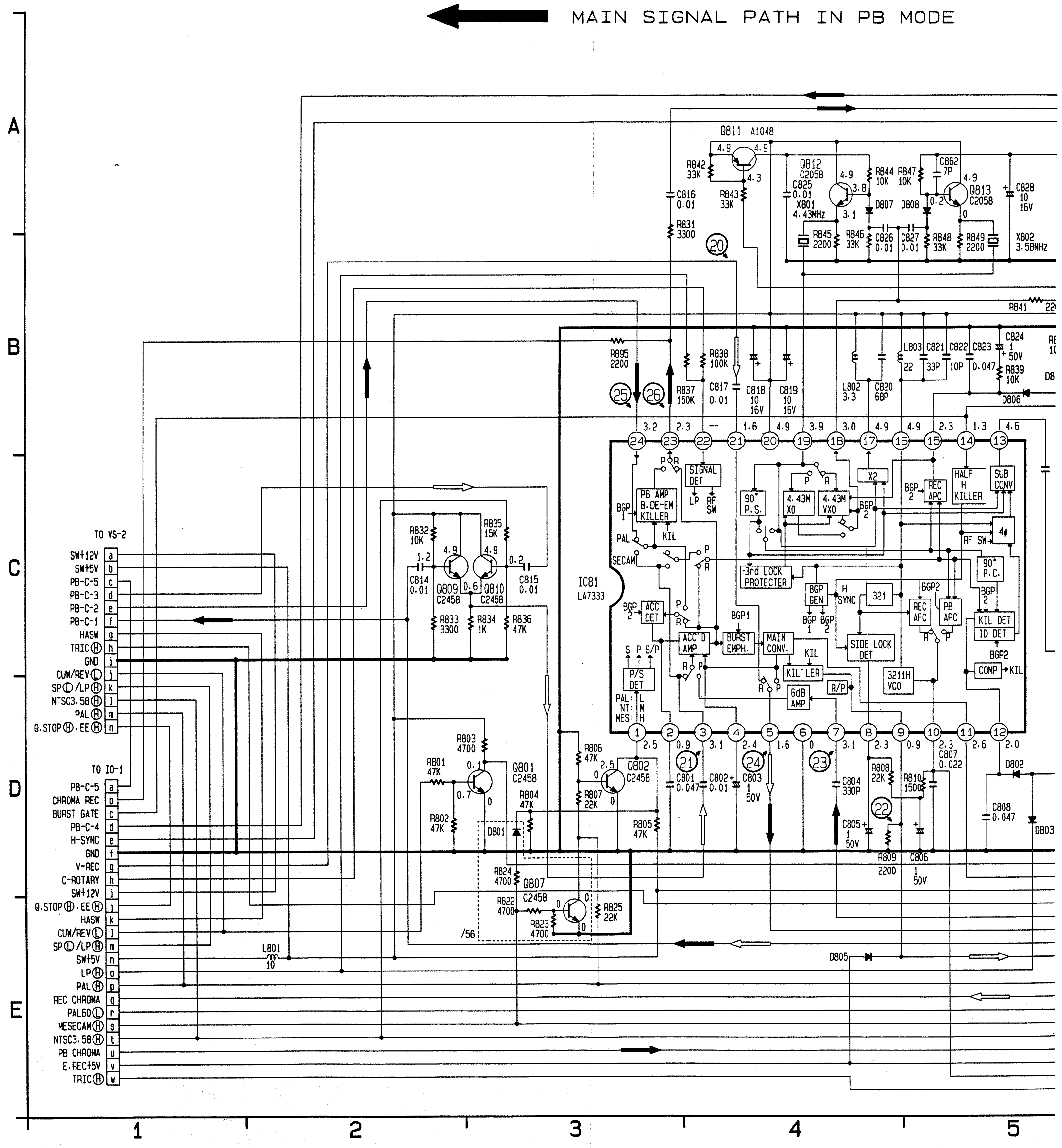
COILS	
L8A1	B6
L8A2	A6
L8A3	A6
L8A4	A7
L801	E2
L802	B4
L803	B5
L804	B7
L805	B8
L806	B8
L811	E6

TRANSISTORS	
Q8A0	B6
Q801	D3
Q802	D3
Q803	D6
Q804	D6
Q805	D7
Q806	D7
Q807	D3
Q809	C2
Q810	C3
Q811	A4
Q812	A4
Q813	A5
Q814	B7
Q815	B8
Q816	A7
Q817	A8

RESISTORS	
R8A0	B6
R8A2	B6
R8A3	B6
R8A4	B6
R8A5	B6
R8A6	B7
R8A7	A6
R8A8	A7
R8A9	A7
R801	D2
R802	D2
R803	D3
R805	D3
R806	D3
R807	D3
R808	D4
R809	D4
R810	D5
R811	D6
R812	D6
R813	D6
R814	D6
R815	D6
R816	D7
R817	D7
R818	D7
R819	D7
R820	D7
R821	E6
R822	E3
R823	E3
R824	D3
R825	E3
R826	C5
R827	C5
R828	C6
R829	C8
R830	D6
R831	A4
R832	C2
R833	C2
R834	C3
R835	C3
R836	C3
R837	B4
R838	B4
R839	B5
R840	B5
R841	B5
R842	A4
R843	A4
R844	A4
R845	B4
R846	B4
R847	A5
R848	B5
R849	B5
R850	B7
R851	B8
R852	B8
R853	B8
R854	B8
R855	B8
R856	B5
R857	B8
R858	A8
R859	A8
R860	A8
R861	A8
R895	B3

X-TAL's	
X801	A4
X802	B5

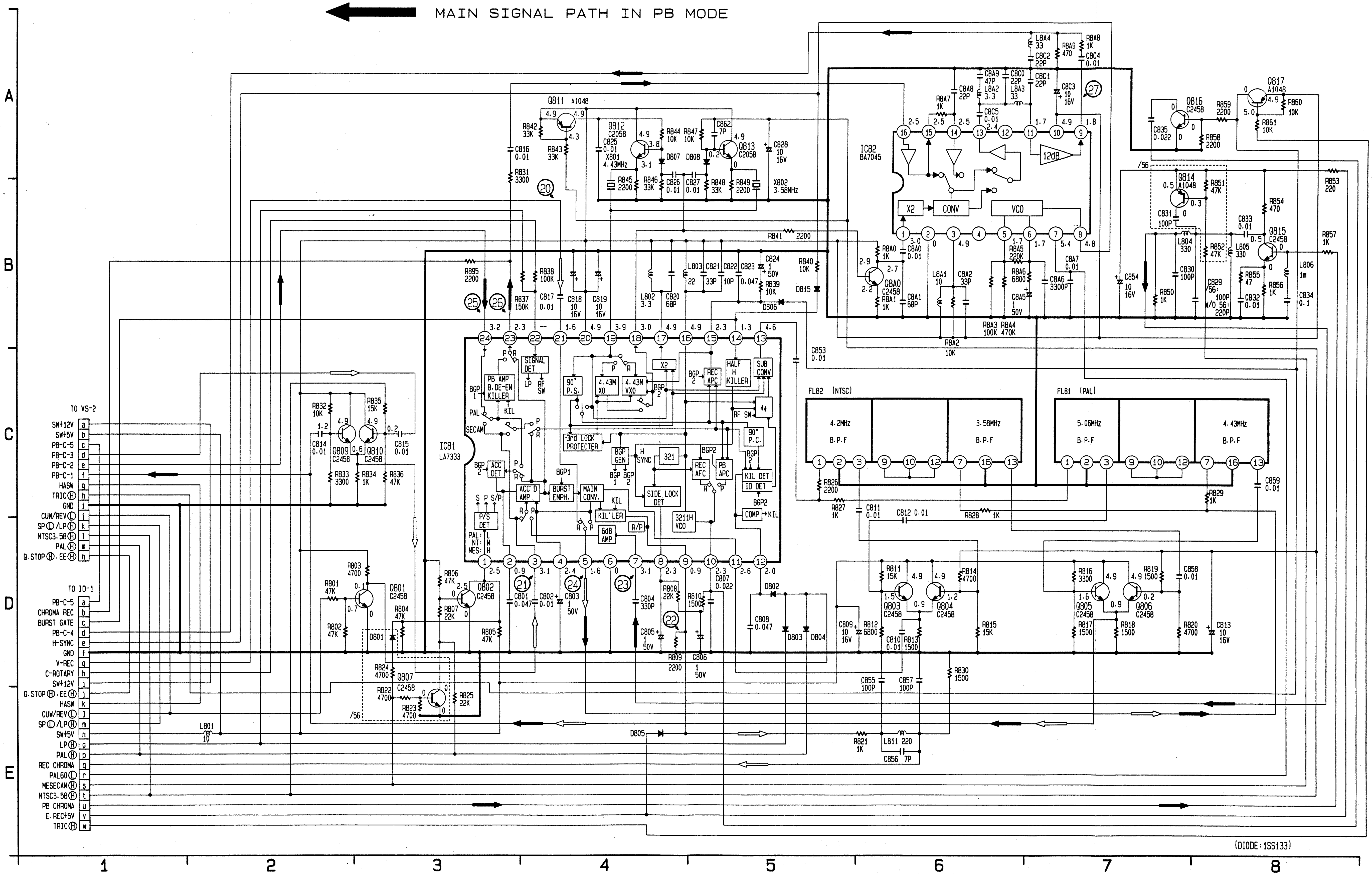
⇦ MAIN SIGNAL PATH IN REC MODE
⬅ MAIN SIGNAL PATH IN PB MODE


A
B
C
D
E
1
2
3
4
5
Q811 A1048
Q812 C2058
Q813 C2058
X801 4.43MHz
X802 3.58MHz
IC81 LA7333
TO VS-2
SW+12V
SW+5V
PB-C-5
PB-C-3
PB-C-2
PB-C-1
HASW
TRIC(H)
GND
CUN/REV(L)
SP(L)/LP(H)
NTSC3.58(H)
PAL(H)
Q.STOP(H)·EE(H)
TO IO-1
PB-C-5
CHROMA REC
BURST GATE
PB-C-4
H-SYNC
GND
V-REC
C-ROTARY
SW+12V
Q.STOP(H)·EE(H)
HASW
CUN/REV(L)
SP(L)/LP(H)
SW+5V
LP(H)
PAL(H)
REC CHROMA
PAL60(L)
MESECAM(H)
NTSC3.58(H)
PB CHROMA
E.REC+5V
TRIC(H)
Q801 C2458
Q802 C2458
Q807 C2458
Q809 C2458
Q810 C2458
PB AMP B.DE-EM KILLER
SIGNAL DET
ACC DET
ACC'D AMP
BURST EMPH.
MAIN CONV.
KIL'LER
6dB AMP
P/S DET
3rd LOCK PROTECTER
BGP GEN
SIDE LOCK DET
321H VCO
REC AFC
PB APC
KIL DET ID DET
COMP
4.43M XO
4.43M VXO
REC APC
HALF H KILLER
SUB CONV
90° P.S.
90° P.C.
RF SW
X2
L801 10
D801
D802
D803
D805
D806
D807
D808

CHROMINANCE SCHEMATIC DIAGRAM (VS-1) PIO1

⇦ MAIN SIGNAL PATH IN REC MODE

⬅ MAIN SIGNAL PATH IN PB MODE



A
B
C
D
E
1
2
3
4
5
6
7
8
TO VS-2
SW+12V a
SW+5V b
PB-C-5 c
PB-C-3 d
PB-C-2 e
PB-C-1 f
HASW g
TRIC(H) h
GND i
CUW/REV(L) j
SP(L)/LP(H) k
NTSC3.58(H) l
PAL(H) m
Q.STOP(H).EE(H) n
TO IO-1
PB-C-5 a
CHROMA REC b
BURST GATE c
PB-C-4 d
H-SYNC e
GND f
V-REC g
C-ROTARY h
SW+12V i
Q.STOP(H).EE(H) j
HASW k
CUW/REV(L) l
SP(L)/LP(H) m
SW+5V n
LP(H) o
PAL(H) p
REC CHROMA q
PAL60(L) r
MESECAM(H) s
NTSC3.58(H) t
PB CHROMA u
E.REC+5V v
TRIC(H) w
IC81 LA7333
IC82 BA7045
Q811 A1048
Q812 C2058
Q813 C2058
X801 4.43MHz
X802 3.58MHz
Q816 C2458
Q817 A1048
Q814 A1048
Q815 C2458
Q8A0 C2458
Q809 C2458
Q810 C2458
Q801 C2458
Q802 C2458
Q807 C2458
Q803 C2458
Q804 C2458
Q805 C2458
Q806 C2458
FL82 (NTSC)
4.2MHz B.P.F
3.58MHz B.P.F
FL81 (PAL)
5.06MHz B.P.F
4.43MHz B.P.F
PB AMP B.DE-EM KILLER
SIGNAL DET
90° P.S.
4.43M XO
4.43M VXO
X2
REC APC
HALF H KILLER
SUB CONV
3rd LOCK PROTECTER
BGP GEN
321
REC AFC
PB APC
90° P.C.
KIL DET ID DET
COMP
ACC DET
ACC'D AMP
BURST EMPH.
MAIN CONV.
KIL'LER
SIDE LOCK DET
3211H VCO
P/S DET
6dB AMP
A/P
X2
CONV
VCO
12dB
L801 10
L802 3.3
L803 22
L804 330
L805 330
L806 1m
L811 220
D801
D802
D803
D804
D805
D806
D807
D808
D815
(DIODE:1SS133)

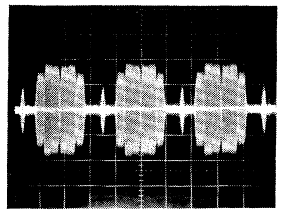
CHROMINANCE SCHEMATIC DIAGRAM (VS-2) PI01

MAIN SIGNAL PATH IN PB MODE ON PAL

MAIN SIGNAL PATH IN PB MODE ON NTSC 4.43

MAIN SIGNAL PATH IN PB MODE ON NTSC 3.58

MAIN SIGNAL PATH IN REC MODE ON NTSC 3.58



㉘ C838 PB SP
50mV/Div. 20µsec/Div.

CAPACITORS	
C836	C2
C837	C7
C838	C2
C839	C3
C840	C4
C841	C4
C842	C4
C843	C5
C844	C7
C845	B7
C846	C7
C847	D4
C848	E4
C849	D5
C850	E5
C851	E5
C852	E5
C860	C2
C861	D3

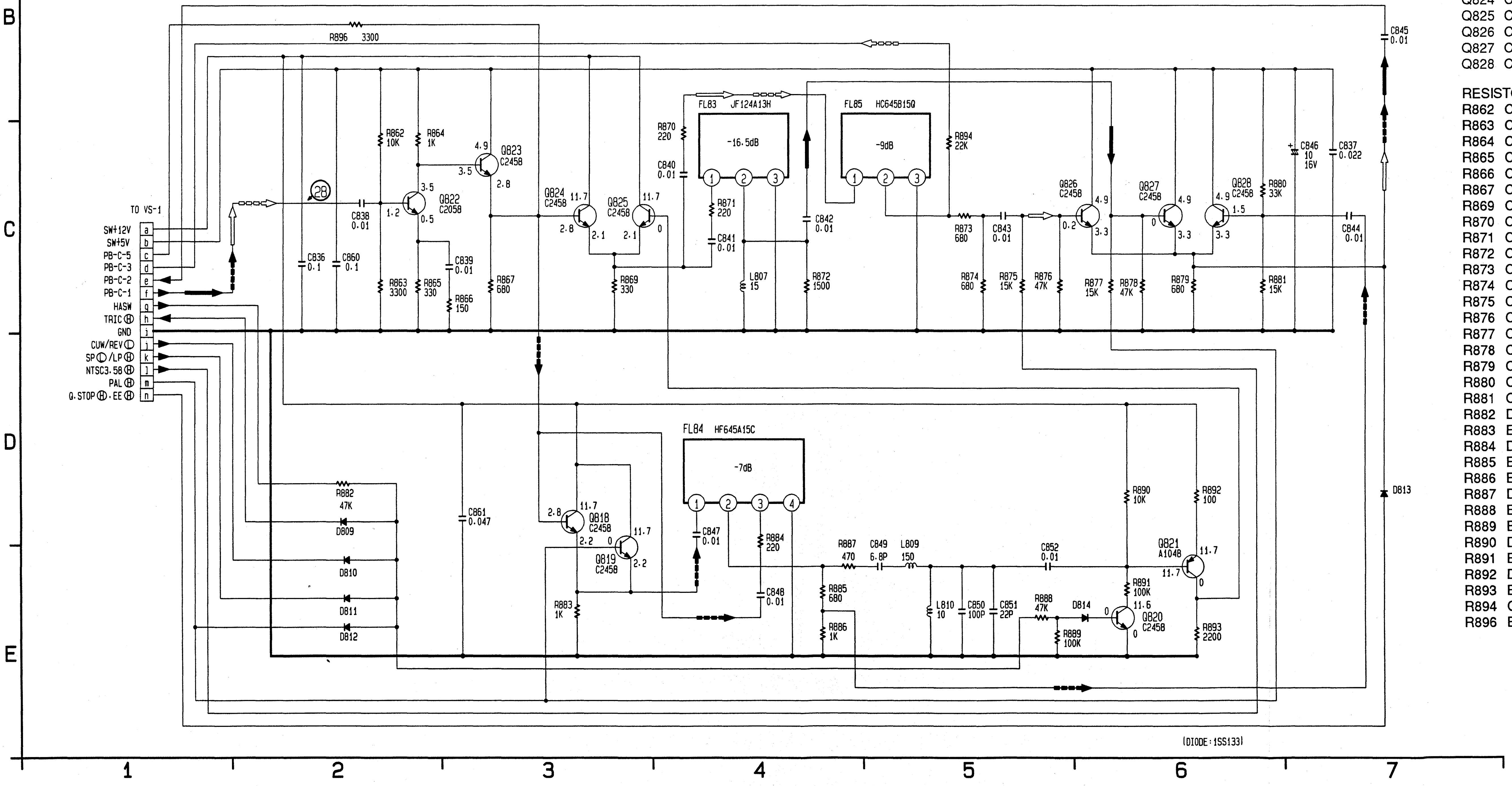
DIODES	
D809	D2
D810	E2
D811	E2
D812	E2
D813	D7
D814	E6

FILTERS	
FL83	B4
FL84	D4
FL85	B4

COILS	
L807	C4
L809	E5
L810	E5

TRANSISTORS	
Q818	D3
Q819	E3
Q820	E6
Q821	E6
Q822	C3
Q823	C3
Q824	C3
Q825	C3
Q826	C6
Q827	C6
Q828	C6

RESISTORS	
R862	C2
R863	C2
R864	C2
R865	C2
R866	C3
R867	C3
R869	C3
R870	C4
R871	C4
R872	C4
R873	C5
R874	C5
R875	C5
R876	C5
R877	C6
R878	C6
R879	C6
R880	C6
R881	C6
R882	D2
R883	E3
R884	D4
R885	E4
R886	E4
R887	D4
R888	E5
R889	E5
R890	D6
R891	E6
R892	D6
R893	E6
R894	C5
R896	B2

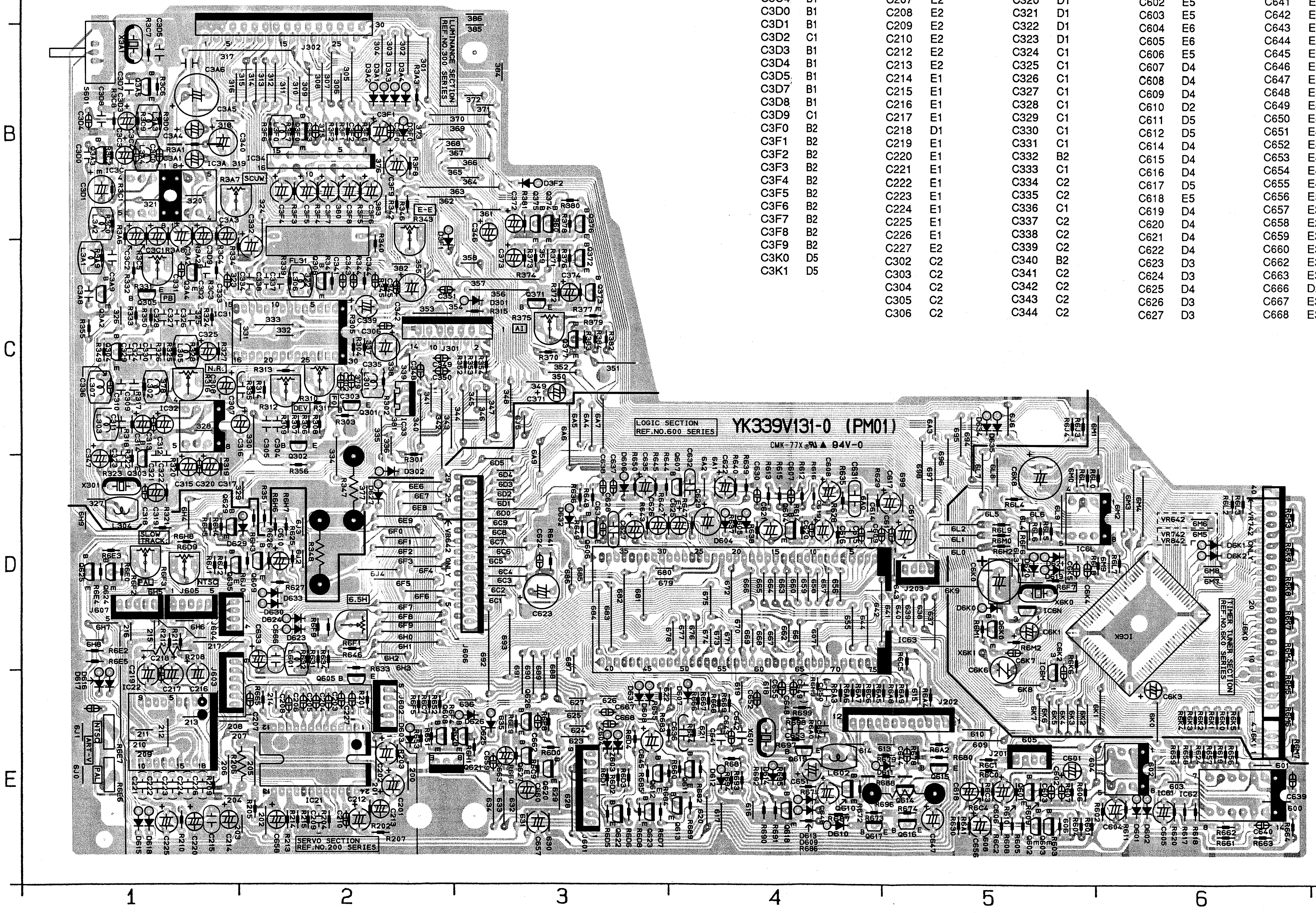


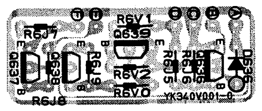
A
B
C
D
E
1
2
3
4
5
6
7
TO VS-1
SW+12V a
SW+5V b
PB-C-5 c
PB-C-3 d
PB-C-2 e
PB-C-1 f
HASW g
TRIC ⊕ h
GND i
CUW/REV ⊖ j
SP ⊖ /LP ⊕ k
NTSC3.58 ⊕ l
PAL ⊕ m
Q.STOP ⊕ ·EE ⊕ n
R896 3300
㉘
C838 0.01
C836 0.1
C860 0.1
R862 10K
R864 1K
R863 3300
R865 330
C839 0.01
R866 150
Q822 C2058
Q823 C2458
R867 680
Q824 C2458
Q825 C2458
R869 330
R870 220
C840 0.01
R871 220
C841 0.01
L807 15
FL83 JF124A13H
-16.5dB
C842 0.01
R872 1500
FL85 HC6458150
-9dB
R894 22K
R873 680
C843 0.01
R874 680
R875 15K
R876 47K
Q826 C2458
R877 15K
R878 47K
Q827 C2458
R879 680
Q828 C2458
R880 33K
R881 15K
C846 10 16V
C837 0.022
C844 0.01
C845 0.01
D813
FL84 HF645A15C
-7dB
C861 0.047
R882 47K
D809
D810
D811
D812
Q818 C2458
Q819 C2458
R883 1K
C847 0.01
R884 220
C848 0.01
R887 470
C849 6.8P
L809 150
R885 680
R886 1K
L810 10
C850 100P
C851 22P
C852 0.01
R888 47K
D814
R889 100K
R890 10K
R891 100K
Q820 C2458
Q821 A1048
R892 100
R893 2200

(DIODE : 1SS133)

LUMINANCE/AI PICTURE/0.32H SCUW for NTSC/MESECAM DETECTOR/SERVO and SYSTEM CONTROL/DRIVER/SERVO and SYSTEM CONTROL/TIMER TUNING P.C.B DRAWING PM01 PM8

"Inserted components are dependent on the set type"


A
B
C
D
E
1
2
3
4
5
6
LUMINANCE SECTION REF.NO.300 SERIES
LOGIC SECTION REF.NO.600 SERIES
YK339V131-0 (PM01)
CMK-77X 94V-0
SERVO SECTION REF.NO.200 SERIES
TIMER TUNER SECTION REF.NO.6K0 SERIES



(PM08)

PM01

CAPACITORS	
C3A1	B1
C3A2	C1
C3A3	B1
C3A4	B1
C3A5	B1
C3A6	B1
C3A8	C1
C3A9	C1
C3C0	B1
C3C1	C1
C3C2	C1
C3C3	B1
C3C4	B1
C3D0	B1
C3D1	B1
C3D2	C1
C3D3	B1
C3D4	B1
C3D5	B1
C3D7	B1
C3D8	B1
C3D9	C1
C3F0	B2
C3F1	B2
C3F2	B2
C3F3	B2
C3F4	B2
C3F5	B2
C3F6	B2
C3F7	B2
C3F8	B2
C3F9	B2
C3K0	D5
C3K1	D5
C3K2	D5
C3K3	E6
C3K4	D5
C3K5	D5
C3K6	D5
C3K7	D5
C3K8	D5
C201	E2
C202	E2
C203	E2
C204	E2
C205	E2
C206	E2
C207	E2
C208	E2
C209	E2
C210	E2
C212	E2
C213	E2
C214	E1
C215	E1
C216	E1
C217	E1
C218	D1
C219	E1
C220	E1
C221	E1
C222	E1
C223	E1
C224	E1
C225	E1
C226	E1
C227	E2
C302	C2
C303	C2
C304	C2
C305	C2
C306	C2
C307	C1
C308	C1
C309	C1
C310	C1
C311	C1
C312	C1
C313	C1
C314	C1
C315	D1
C316	C2
C317	D1
C318	D1
C319	D1
C320	D1
C321	D1
C322	D1
C323	D1
C324	C1
C325	C1
C326	C1
C327	C1
C328	C1
C329	C1
C330	C1
C331	C1
C332	B2
C333	C1
C334	C2
C335	C2
C336	C1
C337	C2
C338	C2
C339	C2
C340	B2
C341	C2
C342	C2
C343	C2
C344	C2
C345	C2
C346	B3
C347	D1
C348	C2
C349	C2
C350	C2
C351	C2
C358	E2
C371	C3
C372	B3
C373	C3
C374	C3
C601	E5
C602	E5
C603	E5
C604	E6
C605	E6
C606	E5
C607	D4
C608	D4
C609	D4
C610	D2
C611	D5
C612	D5
C614	D4
C615	D4
C616	D4
C617	D5
C618	E5
C619	D4
C620	D4
C621	D4
C622	D4
C623	D3
C624	D3
C625	D4
C626	D3
C627	D3
C628	D3
C629	D4
C630	D4
C631	D4
C632	D4
C633	D2
C634	D3
C635	D3
C636	E4
C637	D3
C638	D3
C639	E6
C640	E6
C641	E4
C642	E4
C643	E4
C644	E5
C645	E3
C646	E4
C647	E5
C648	E4
C649	E4
C650	E4
C651	E4
C652	E4
C653	E4
C654	E4
C655	E4
C656	E5
C657	E3
C658	E2
C659	E3
C660	E3
C662	E3
C663	E3
C666	D2
C667	E3
C668	E3

DIODES	
D3A1	B2
D3A2	B2
D3A3	B2
D3A4	B2
D3F0	B2
D3F1	B2
D3F2	B3
D6K0	D5
D6K1	D6
D6K2	D6
D301	C3
D302	D2
D601	E6
D602	E6
D603	E2
D604	D4
D605	D4
D606	D3
D607	E4
D608	E3
D609	E4
D610	E4
D611	E5
D612	E4
D613	E4
D614	E4
D615	E1
D616	E1
D617	E1
D618	E1
D619	D5
D620	D5
D621	D5
D623	D2
D624	D2
D625	E3
D626	E3
D627	D2
D629	D2
D630	D2
D631	E3
D632	D3
D633	D2
D634	C5
D635	C5

FILTER	
FL31	C2

IC's	
IC3A	B1
IC3C	B1
IC6K	D6
IC6L	D5
IC6M	E5
IC6N	D5
IC21	E2
IC22	E1
IC31	C1
IC32	C1
IC33	C2
IC34	B2
IC61	E6
IC62	E6
IC63	D5

CONNECTORS	
J6K0	D6
J6K1	E6
J201	E5
J202	E5
J203	D5
J301	C2
J302	B2
J601	E3
J602	E2
J603	E1
J604	D1
J605	D1
J606	D3
J607	D1

COILS

L3A1	C1
L3A2	B1
L3A3	B1
L3A4	B1
L3F0	B2
L301	C2
L302	C1
L303	C1
L304	D1
L305	C1
L306	C2
L307	C1
L601	D2
L602	E4

TRANSISTORS

Q3A2	C1
Q3A3	B1
Q3A4	C1
Q3A5	B1
Q3F0	B2
Q3K0	D5
Q301	C2
Q302	D2
Q303	D1
Q304	C1
Q305	C1
Q308	C2
Q371	C3
Q372	C3
Q373	C3
Q374	B3
Q375	B3
Q376	B3
Q377	C3
Q601	E5
Q602	E5
Q603	E5
Q604	D4
Q605	E2
Q606	D3
Q607	D4
Q608	E2
Q609	D2
Q610	E4
Q611	E4
Q612	E3
Q613	E4
Q614	E5
Q615	E5
Q616	E5
Q617	E4
Q618	E4
Q619	E4
Q620	E3
Q621	E3
Q622	E3
Q623	E3
Q624	D1
Q625	D1
Q626	E3
Q627	E3
Q628	E3
Q629	D1
Q635	D1

RESISTORS

R3A1	B1
R3A2	C1
R3A3	B2
R3A6	B1
R3A7	B1
R3A8	C1
R3A9	C1
R3C0	B1
R3C1	B1
R3C2	B1
R3C3	C1
R3C4	C1
R3C5	C1
R3C6	B1
R3C7	B1
R3C8	B1
R3C9	B1
R3D0	B1
R3F0	B2
R3F1	B2
R3F2	B2
R3F3	B2
R3F4	B2
R3F5	B2
R3F6	B2
R3F7	B2
R3F8	B2
R6A0	E4
R6A1	E5
R6A2	E5
R6A3	E4
R6A4	E5
R6A5	E4
R6A6	E4
R6A7	E4
R6A8	E5
R6A9	E5
R6C0	E5
R6C1	E5
R6C2	E5
R6C3	E5
R6C4	E5
R6C5	D5
R6C6	E4
R6C7	E2
R6C9	E3
R6D0	E3
R6D1	E3
R6D2	E3
R6D3	E3
R6D4	E3
R6D5	E3
R6D6	E3
R6D7	E3
R6D8	E3
R6D9	D1
R6E0	D1
R6E2	D1
R6E3	D1
R6E4	D1
R6E5	D1
R6E6	E1
R6E7	E1
R6E8	E3
R6E9	E3
R6F0	E3
R6F1	D2
R6F2	D1
R6F3	D1
R6F4	E2
R6F5	E2
R6F6	D5
R6F7	D5
R6F9	D2
R6H1	E3
R6H2	D5
R6H3	D2
R6H4	D1
R6H5	D1
R6H6	D2
R6H7	D2
R6H8	D1
R6H9	E4
R6J0	D2
R6J1	D1
R6J2	D1
R6J3	C5
R6J4	C5
R6K0	E6
R6K1	E6
R6K2	E6
R6K3	E6
R6K4	E6
R6K5	E6
R6K6	D5
R6K7	D6
R6K8	D6
R6K9	D6
R6L0	D5
R6L1	D5
R6L2	D6
R6L3	D6
R6L4	D5
R6L5	D5
R6L6	D5
R6L7	D6
R6L8	D5
R6L9	D5
R6M0	D5
R6M1	D5
R6M2	D5
R6M3	D6
R6M4	D6
R6M5	E6
R6M6	E6
R6M7	E6
R201	E2
R202	E2
R203	E2
R204	E2
R205	E2
R206	E1
R207	E2
R208	D1
R209	E1
R210	E1
R211	D1
R212	D1
R213	E2
R214	E2
R215	E2
R301	D2
R302	C2
R303	C2
R304	C2
R305	C2
R306	C2
R307	C2
R308	C2
R309	C2
R310	C2
R311	C2
R312	C2
R313	C2
R314	C2
R315	C3
R316	C1
R317	C1
R318	C1
R319	D1
R320	D1
R321	D1
R322	D1
R323	D1
R324	C1
R325	C1
R326	C1
R327	C1
R328	C1
R331	C1
R332	C1
R333	C1
R334	C1
R335	C2
R339	C2
R340	C2
R341	C2
R342	B2
R343	B2
R344	C2
R345	C2
R346	B2
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R374	C3
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R376	C3
R377	C3
R378	B3
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R608	E5
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R610	E5
R611	E6
R612	D4
R613	D4
R614	D4
R615	D4
R616	D4
R617	E6
R618	E6
R619	E6
R620	E6
R624	E6
R625	D2
R626	D2
R627	D2
R628	D4
R629	D4
R630	E5
R631	D2
R632	D2
R633	D2
R634	D2
R635	D4
R636	D3
R637	D4
R638	D4
R639	D4
R640	D4
R641	D3
R642	D3
R643	D3
R644	D3
R645	D3
R646	D2
R647	D4
R648	D3
R649	D3
R650	D3
R651	E2
R652	E2
R653	E2
R654	E4
R655	E3
R656	E6
R657	E6
R658	E6
R659	E6
R660	E4
R661	E6
R662	E6
R663	E6
R664	E6
R665	E2
R666	E4
R667	E4
R668	E4
R669	E4
R671	E4
R672	E4
R673	E4
R674	E5
R678	E5
R679	E5
R680	E5
R681	E4
R682	E4
R683	E3
R684	E3
R685	E3
R686	E4
R687	E4
R688	E5
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R690	E4
R691	E4
R692	E4
R693	E4
R694	E4
R695	E4
R696	E5
R697	E4
R698	E4
R699	E4

SWITCH

S601	B1

X-TAL's

X3A1	B1
X6K0	D5
X6K1	D5
X601	E4
X301	D1

ZENERS

Z603	E3
Z604	E3

PM08

DIODE

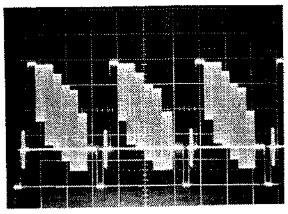
D636	E8

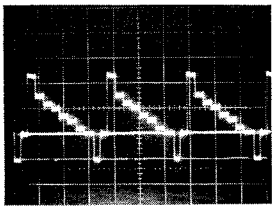
TRANSISTORS

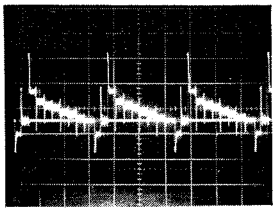
Q636	E8
Q637	E7
Q638	E7
Q639	D7

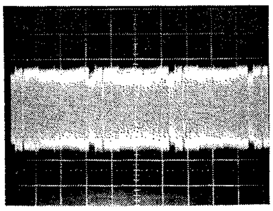
RESISTORS

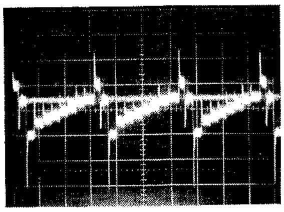
R6J5	E7
R6J6	E8
R6J7	D7
R6J8	E7
R6J9	E7
R6V0	E7
R6V1	D7
R6V2	E7

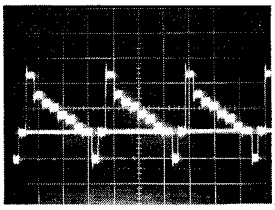

㉚ IC31 Pin5 REC SP
200mV/Div. 20µsec/Div.

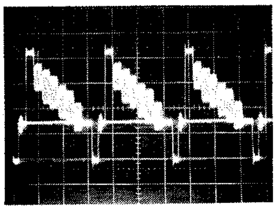

㉛ IC31 Pin14 REC SP
100mV/Div. 20µsec/Div.

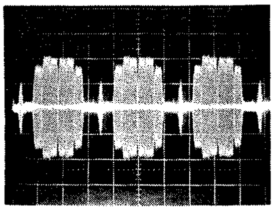

㉝ IC31 Pin25 REC SP
200mV/Div. 20µsec/Div.


㉞ IC31 Pin28 PB SP
200mV/Div. 20µsec/Div.


㉟ IC31 Pin14 PB SP
50mV/Div. 20µsec/Div.


㊱ IC31 TP33 PB SP
100mV/Div. 20µsec/Div.


㊲ IC31 Pin9 PB SP
500mV/Div. 20µsec/Div.


㊳ IC31 Pin12 PB SP
50mV/Div. 20µsec/Div.

CAPACITORS	
C302	B4
C303	B4
C304	B4
C305	B4
C306	B5
C307	B5
C308	B5
C309	B5
C310	B5
C312	A6
C313	B6
C314	A6
C315	A6
C316	A6
C317	A6
C318	A7
C319	A7
C320	A7
C321	A7
C322	A7
C323	A7
C324	B7
C325	B5
C326	B6
C327	B6
C328	B6
C330	B7
C331	D6
C332	D5
C333	D5
C334	D5
C335	D5
C336	D5
C337	D4
C338	D4
C339	D4
C340	D4
C341	D4
C342	D4
C343	D4
C344	D3
C345	D3
C346	D4
C347	A3
C348	A1
C349	A2
C350	A2
C351	A2
C353	B4

DIODES	
D301	B4
D302	E5

IC's	
IC31	C3
IC32	A6
IC33	A4

CONECTORS	
J301	A1
J302	C1

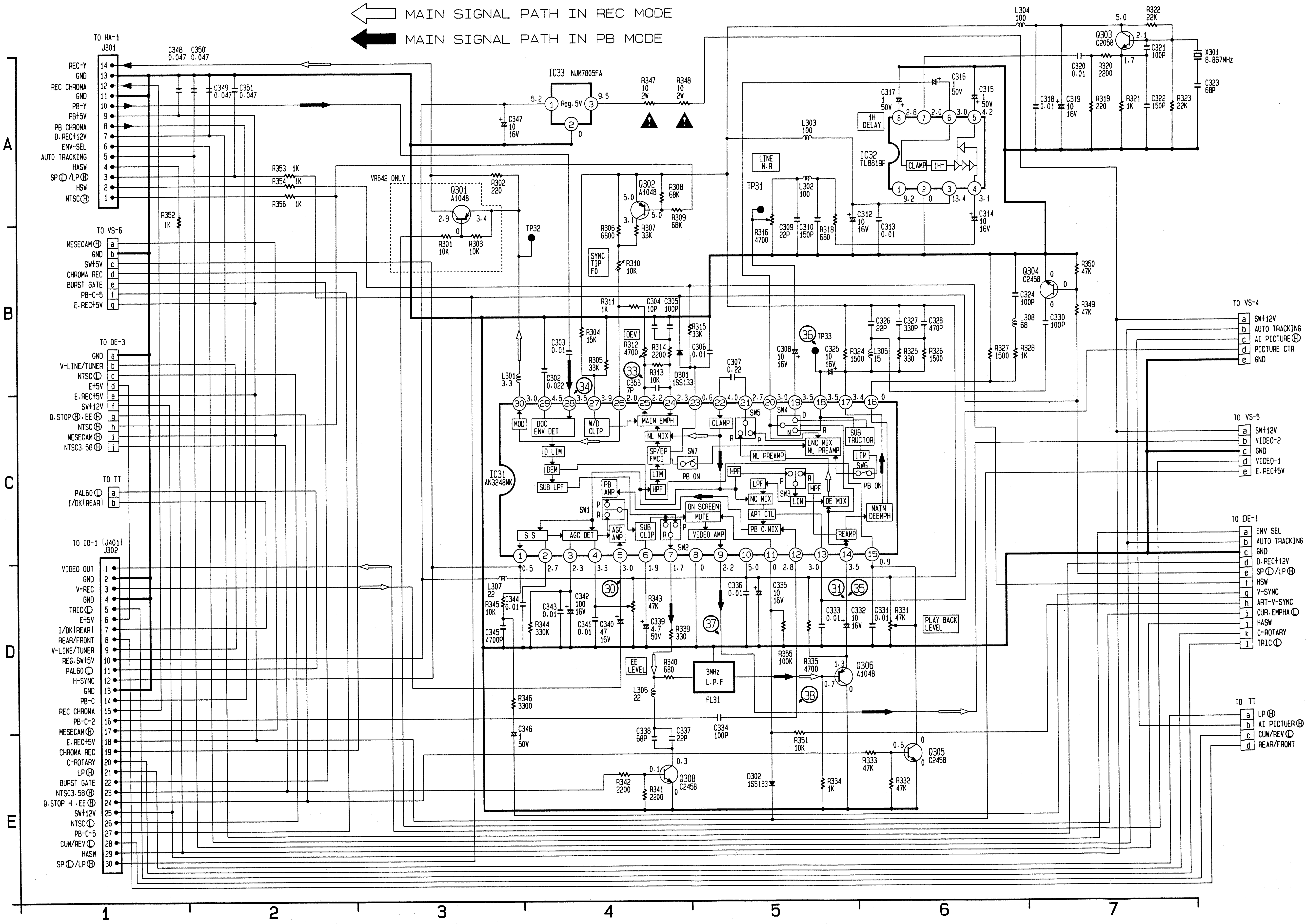
COILS	
L301	B3
L302	A5
L303	A5
L304	A6
L305	B6
L306	D4
L307	D3
L308	B7

TRANSISTORS	
Q301	A3
Q302	A4
Q303	A7
Q304	B7
Q305	E6
Q306	D6
Q308	E4

RESISTORS	
R301	B3
R302	A3
R303	B3
R304	B4
R305	B4
R306	B4
R307	B4
R308	A4
R309	A4
R310	B4
R311	B4
R312	B4
R313	B4
R314	B4
R315	B5
R316	B5
R318	B5
R319	A7
R320	A7
R321	A7
R322	A7
R323	A7
R324	B5
R325	B6
R326	B6
R327	B6
R328	B6
R331	D6
R332	E6
R333	E6
R334	E5
R335	D5
R339	D4
R340	D4
R341	E4
R342	E4
R343	D4
R344	D4
R345	D3
R346	D3
R347	A4
R348	A4
R349	B7
R350	B7
R351	E5
R352	A1
R353	A2
R354	A2
R355	D5
R356	A2

X-TAL	
X301	A7

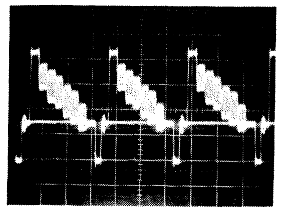
LUMINANCE SCHEMATIC DIAGRAM (VS-3) PM01


MAIN SIGNAL PATH IN REC MODE
MAIN SIGNAL PATH IN PB MODE
TO HA-1
J301
REC-Y 14
GND 13
REC CHROMA 12
GND 11
PB-Y 10
PB+5V 9
PB CHROMA 8
D.REC+12V 7
ENV-SEL 6
AUTO TRACKING 5
HASW 4
SP(L)/LP(H) 3
HSW 2
NTSC(H) 1
TO VS-6
MESECAM(H) a
GND b
SW+5V c
CHROMA REC d
BURST GATE e
PB-C-5 f
E.REC+5V g
TO DE-3
GND a
V-LINE/TUNER b
NTSC(L) c
E+5V d
E.REC+5V e
SW+12V f
Q.STOP(H).EE(H) g
NTSC(H) h
MESECAM(H) i
NTSC3.58(H) j
TO TT
PAL60(L) a
I/DK(REAR) b
TO IO-1 (J401)
J302
VIDEO OUT 1
GND 2
V-REC 3
GND 4
TRIC(L) 5
E+5V 6
I/DK(REAR) 7
REAR/FRONT 8
V-LINE/TUNER 9
REG.SW+5V 10
PAL60(L) 11
H-SYNC 12
GND 13
PB-C 14
REC CHROMA 15
PB-C-2 16
MESECAM(H) 17
E.REC+5V 18
CHROMA REC 19
C-ROTARY 20
LP(H) 21
BURST GATE 22
NTSC3.58(H) 23
Q.STOP H.EE(H) 24
SW+12V 25
NTSC(L) 26
PB-C-5 27
CUW/REV(L) 28
HASW 29
SP(L)/LP(H) 30
C348 0.047
C350 0.047
C349 0.047
C351 0.047
IC33 NJM7805FA
Reg.5V
5.2
9.5
C347 10 16V
R347 10 2W
R348 10 2W
R353 1K
R354 1K
R356 1K
R352 1K
VR642 ONLY
Q301 A1048
2.9
3.4
R301 10K
R303 10K
R302 220
TP32
Q302 A1048
5.0
3.1
R306 6800
R307 33K
R308 68K
R309 68K
SYNC TIP FO
R310 10K
R311 1K
C304 10P
C305 100P
R315 33K
C306 0.01
DEV
R312 4700
R314 2200
D301 1SS133
R313 10K
C353 7P
C303 0.01
C302 0.022
R304 15K
R305 33K
L301 3.3
C307 0.22
L303 100
LINE N.R
TP31
R316 4700
C309 22P
C310 150P
R318 680
L302 100
C312 10 16V
C313 0.01
1H DELAY
C317 1 50V
C316 1 50V
C315 1 50V
IC32 TL8819P
CLAMP
1H
C314 10 16V
L304 100
R322 22K
Q303 C2058
C321 100P
X301 8.867MHz
C320 0.01
R320 2200
C323 68P
C318 0.01
C319 10 16V
R319 220
R321 1K
C322 150P
R323 22K
Q304 C2458
R350 47K
R349 47K
C324 100P
L308 68
C330 100P
R327 1500
R328 1K
C326 22P
C327 330P
C328 470P
R324 1500
L305 15
R325 330
R326 1500
TP33
C308 10 16V
C325 10 16V
IC31 AN3248NK
MOD
DOC ENV DET
W/D CLIP
MAIN EMPH
NL MIX
CLAMP
SW5
SW4
SUB TRACTOR
LNC MIX NL PREAMP
NL PREAMP
LIM
SW6
PB ON
D LIM
DEM
SUB LPF
SP/EP FMCI
SW7
PB ON
LIM
HPF
HPF
LPF
NC MIX
SW3
LIM
HPF
DE MIX
MAIN DEEMPH
PB AMP
SW1
ON SCREEN MUTE
APT CTL
S S
AGC DET
AGC AMP
SUB CLIP
VIDEO AMP
SW2
PB C.MIX
REAMP
L307 22
R345 10K
C344 0.01
C345 4700P
R344 330K
C343 0.01
C342 100 16V
C341 0.01
C340 47 16V
R343 47K
C339 4.7 50V
R339 330
C336 0.01
C335 10 16V
C333 0.01
C332 10 16V
C331 0.01
R331 47K
PLAY BACK LEVEL
EE LEVEL
R340 680
3MHz L.P.F
FL31
R355 100K
R335 4700
Q306 A1048
L306 22
R346 3300
C346 1 50V
C338 68P
C337 22P
C334 100P
R351 10K
Q305 C2458
R333 47K
Q308 C2458
R342 2200
R341 2200
D302 1SS133
R334 1K
R332 47K
TO VS-4
SW+12V a
AUTO TRACKING b
AI PICTURE(H) c
PICTURE CTR d
GND e
TO VS-5
SW+12V a
VIDEO-2 b
GND c
VIDEO-1 d
E.REC+5V e
TO DE-1
ENV SEL a
AUTO TRACKING b
GND c
D.REC+12V d
SP(L)/LP(H) e
HSW f
V-SYNC g
ART-V-SYNC h
CUR.EMPHA(L) i
HASW j
C-ROTARY k
TRIC(L) l
TO TT
LP(H) a
AI PICTUER(H) b
CUW/REV(L) c
REAR/FRONT d
A
B
C
D
E
1
2
3
4
5
6
7

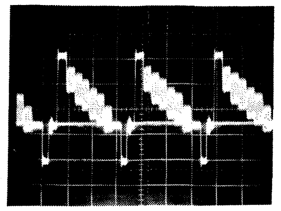
0.32H SKEW FOR NTSC SCHEMATIC DIAGRAM (VS-5) PM01

⇦ MAIN SIGNAL PATH IN REC MODE

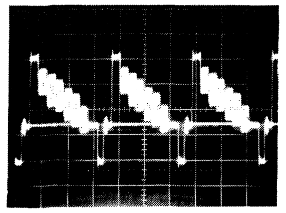
◀ MAIN SIGNAL PATH IN PB MODE



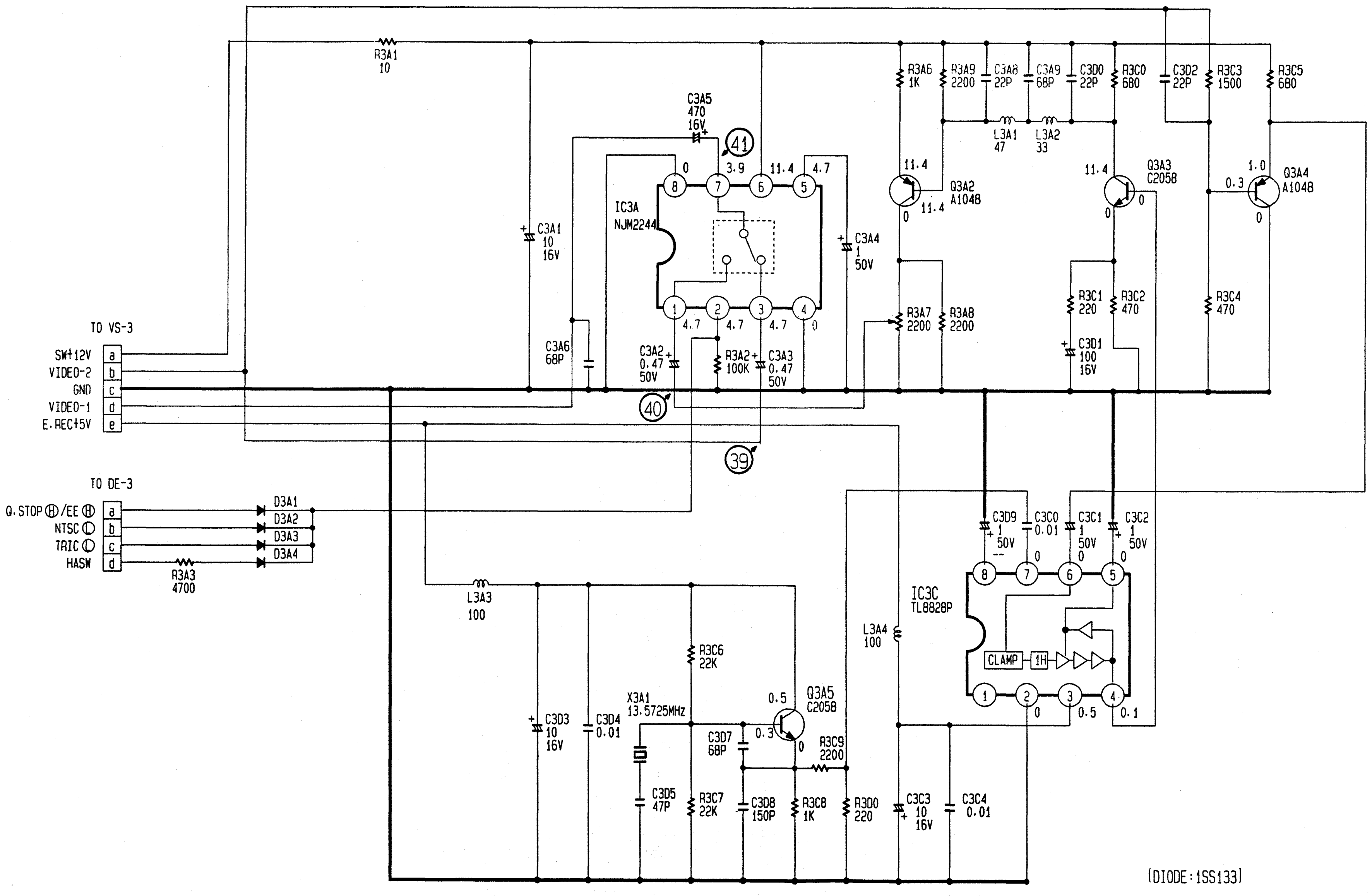
㊴ C3A3⊖ PB SP
500mV/Div. 20µsec/Div.



㊵ C3A2⊖ PB SP
500mV/Div. 20µsec/Div.



㊶ IC3A Pin7 PB SP
500mV/Div. 20µsec/Div.


TO VS-3
SW+12V a
VIDEO-2 b
GND c
VIDEO-1 d
E.REC+5V e
TO DE-3
Q.STOP Ⓗ/EE Ⓗ a
NTSC Ⓛ b
TRIC Ⓛ c
HASW d
R3A3 4700
D3A1
D3A2
D3A3
D3A4
R3A1 10
C3A1 10 16V
C3A6 68P
C3A5 470 16V
㊶
IC3A NJM2244
0 3.9 11.4 4.7
4.7 4.7 4.7 0
C3A2 0.47 50V
R3A2 100K
C3A3 0.47 50V
C3A4 1 50V
㊵
㊴
R3A6 1K
R3A9 2200
C3A8 22P
C3A9 68P
C3D0 22P
R3C0 680
C3D2 22P
R3C3 1500
R3C5 680
L3A1 47
L3A2 33
Q3A2 A1048
11.4
11.4
0
Q3A3 C2058
11.4
0
0
Q3A4 A1048
1.0
0.3
0
R3A7 2200
R3A8 2200
R3C1 220
R3C2 470
C3D1 100 16V
R3C4 470
L3A3 100
C3D3 10 16V
C3D4 0.01
X3A1 13.5725MHz
C3D5 47P
R3C6 22K
R3C7 22K
C3D7 68P
C3D8 150P
Q3A5 C2058
0.5
0.3
0
R3C9 2200
R3C8 1K
R3D0 220
C3C3 10 16V
C3C4 0.01
L3A4 100
IC3C TL8828P
C3D9 1 50V
C3C0 0.01
C3C1 1 50V
C3C2 1 50V
--
0
0
0
CLAMP
1H
0
0.5
0.1
(DIODE:1SS133)

CAPACITORS	
C3A1	C3
C3A2	C4
C3A3	C4
C3A4	C4
C3A5	B4
C3A6	C3
C3A8	B5
C3A9	B5
C3C0	D5
C3C1	D5
C3C2	D5
C3C3	E5
C3C4	E5
C3D0	B5
C3D1	B5
C3D2	B6
C3D3	D3
C3D4	D4
C3D5	E4
C3D7	D4
C3D8	E4
C3D9	D5

DIODES	
D3A1	D2
D3A2	D2
D3A3	D2
D3A4	D2

IC's	
IC3A	C4
IC3C	D5

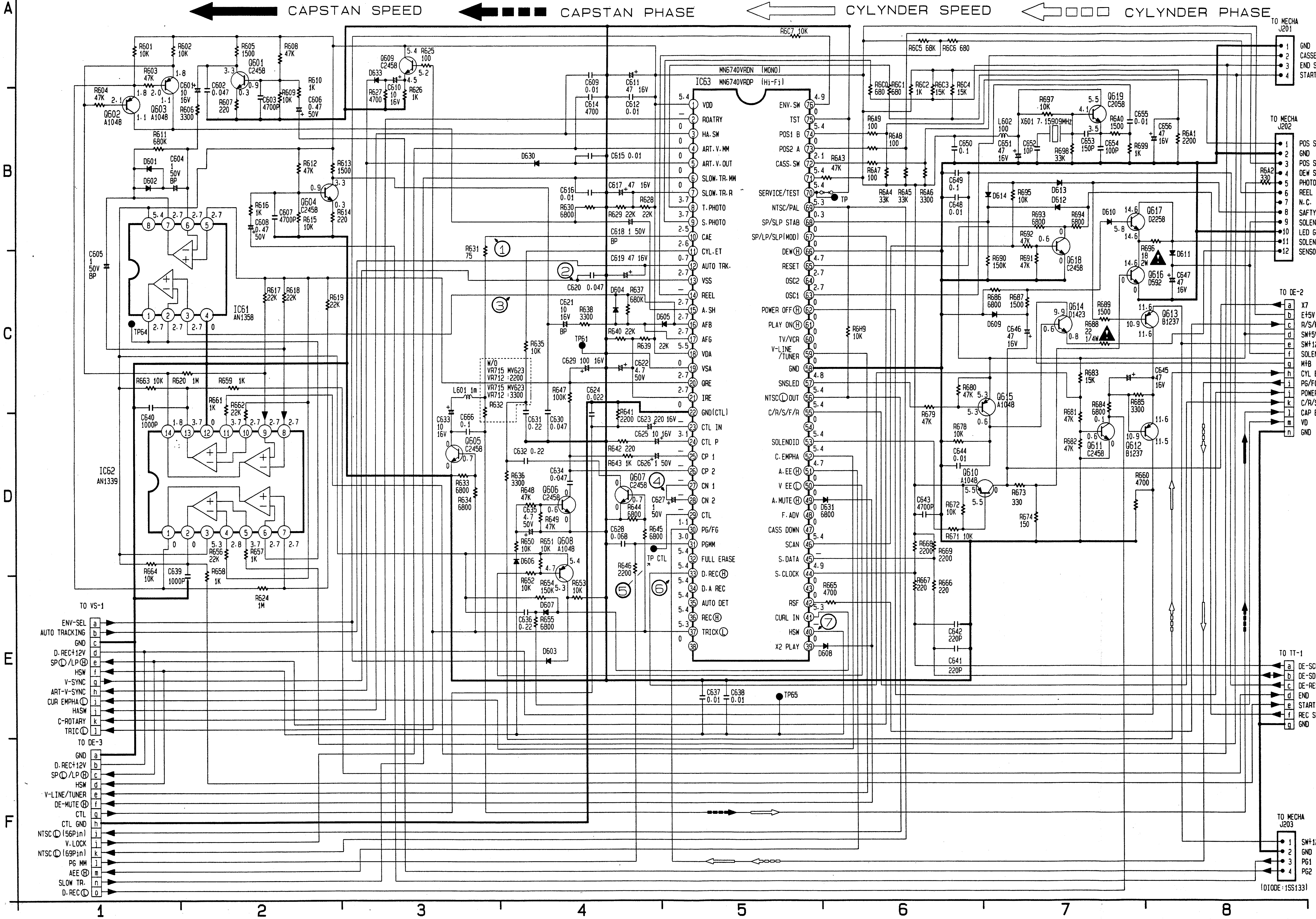
COILS	
L3A1	B5
L3A2	B5
L3A3	D3
L3A4	D4

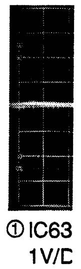
TRANSISTORS	
Q3A2	B5
Q3A3	B5
Q3A4	B6
Q3A5	D4

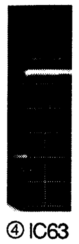
RESISTORS	
R3A1	B3
R3A2	C4
R3A3	D2
R3A4	B6
R3A6	B5
R3A7	C5
R3A8	C5
R3A9	B5
R3C0	B5
R3C1	C5
R3C2	C5
R3C3	B6
R3C4	C6
R3C5	B6
R3C6	D4
R3C7	E4
R3C8	E4
R3C9	D4
R3D0	E4

X-TAL	
X3A1	D4

SERVO AND SYSTEM CONTROL SCHEMATIC DIAGRAM (DE−1) PM01

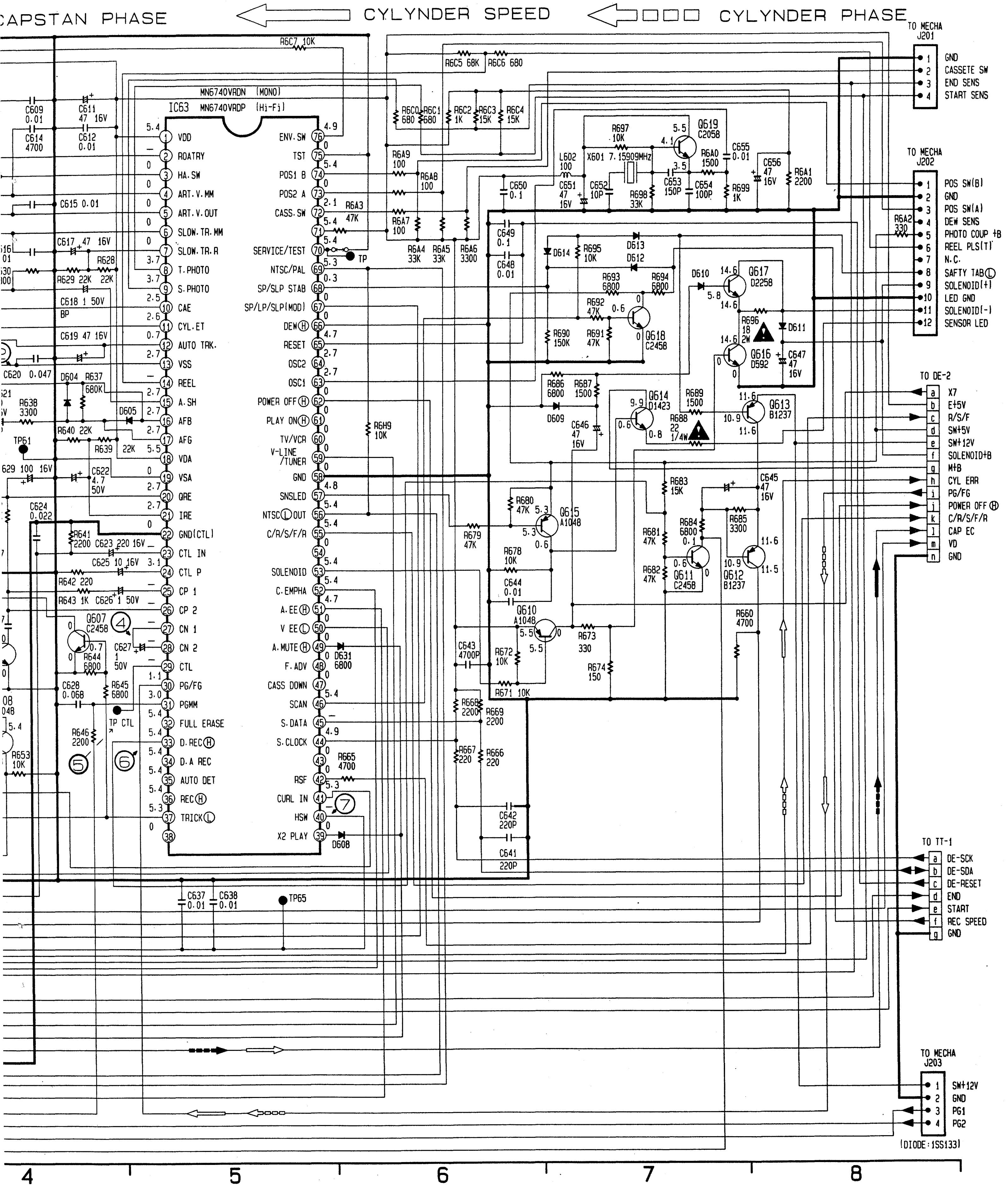

CAPSTAN SPEED
CAPSTAN PHASE
CYLYNDER SPEED
CYLYNDER PHASE
A
B
C
D
E
F
1
2
3
4
5
6
7
8
TO MECHA J201
1 GND
2 CASSETE SW
3 END SENS
4 START SENS
TO MECHA J202
1 POS SW(B)
2 GND
3 POS SW(A)
4 DEW SENS
5 PHOTO COUP +B
6 REEL PLS(T)
7 N.C.
8 SAFTY TAB Ⓛ
9 SOLENOID(+)
10 LED GND
11 SOLENOID(−)
12 SENSOR LED
TO DE-2
a X7
b E+5V
c R/S/F
d SW+5V
e SW+12V
f SOLENOID+B
g M+B
h CYL ERR
i PG/FG
j POWER OFF Ⓗ
k C/R/S/F/R
l CAP EC
m VD
n GND
TO TT-1
a DE-SCK
b DE-SDA
c DE-RESET
d END
e START
f REC SPEED
g GND
TO MECHA J203
1 SW+12V
2 GND
3 PG1
4 PG2
(DIODE:1SS133)
TO VS-1
a ENV-SEL
b AUTO TRACKING
c GND
d D.REC+12V
e SPⓁ/LPⒽ
f HSW
g V-SYNC
h ART-V-SYNC
i CUR EMPHAⓁ
j HASW
k C-ROTARY
l TRICⓁ
TO DE-3
a GND
b D.REC+12V
c SPⓁ/LPⒽ
d HSW
e V-LINE/TUNER
f DE-MUTE Ⓗ
g CTL
h CTL GND
i NTSCⓁ(56Pin)
j V.LOCK
k NTSCⓁ(69Pin)
l PG MM
m AEE Ⓗ
n SLOW TR.
o D.RECⓁ
IC63 MN6740VRDN (MONO) MN6740VRDP (Hi-Fi)
1 VDD
2 ROATRY
3 HA.SW
4 ART.V.MM
5 ART.V.OUT
6 SLOW.TR.MM
7 SLOW.TR.R
8 T.PHOTO
9 S.PHOTO
10 CAE
11 CYL.ET
12 AUTO TRK.
13 VSS
14 REEL
15 A.SH
16 AFB
17 AFG
18 VDA
19 VSA
20 QRE
21 IRE
22 GND(CTL)
23 CTL IN
24 CTL P
25 CP 1
26 CP 2
27 CN 1
28 CN 2
29 CTL
30 PG/FG
31 PGMM
32 FULL ERASE
33 D.RECⒽ
34 D.A REC
35 AUTO DET
36 RECⒽ
37 TRICKⓁ
38
76 ENV.SW
75
74 POS1 B
73 POS2 A
72 CASS.SW
71
70 SERVICE/TEST
69 NTSC/PAL
68 SP/SLP STAB
67 SP/LP/SLP(MOD)
66 DEWⒽ
65 RESET
64 OSC2
63 OSC1
62 POWER OFFⒽ
61 PLAY ONⒽ
60 TV/VCR
59 V-LINE /TUNER
58 GND
57 SNSLED
56 NTSCⓁOUT
55 C/R/S/F/R
54
53 SOLENOID
52 C.EMPHA
51 A.EEⒽ
50 V EEⓁ
49 A.MUTEⒽ
48 F.ADV
47 CASS DOWN
46 SCAN
45 S.DATA
44 S.CLOCK
43
42 RSF
41 CURL IN
40 HSW
39 X2 PLAY
IC61 AN1358
IC62 AN1339
TP64
TP61
TP65
TP CTL
TP
① ② ③ ④ ⑤ ⑥ ⑦
Q601 C2458
Q602 A1048
Q603 A1048
Q604 C2458
Q605 C2458
Q606 C2458
Q607 C2458
Q608 A1048
Q609 C2458
Q610 A1048
Q611 C2458
Q612 B1237
Q613 B1237
Q614 D1423
Q615 A1048
Q616 D592
Q617 D2258
Q618 C2458
Q619 C2058
X601 7.15909MHz
L601 1m
L602 100
W/O VR715 MV623 VR712 :2200
VR715 MV623 VR712 :3300
D601
D602
D603
D604
D605
D606
D607
D608
D609
D610
D611
D612
D613
D614
D630
D631
D633
R601 10K
R602 10K
R603 47K
R604 47K
R605 1500
R606 3300
R607 220
R608 47K
R609 10K
R610 1K
R611 680K
R612 47K
R613 1500
R614 220
R615 10K
R616 1K
R617 22K
R618 22K
R619 22K
R620 1M
R624 1M
R625 100
R626 1K
R627 4700
R628 22K
R629 22K
R630 6800
R631 75
R632
R633 6800
R634 6800
R635 10K
R636 3300
R637 680K
R638 3300
R639 22K
R640 22K
R641 2200
R642 220
R643 1K
R644 6800
R645 6800
R646 2200
R647 100K
R648 47K
R649 47K
R650 10K
R651 10K
R652 10K
R653 10K
R654 150K
R655 6800
R656 22K
R657 1K
R658 1K
R659 1K
R660 4700
R661 1K
R662 22K
R663 10K
R664 10K
R665 4700
R666 220
R667 220
R668 2200
R669 2200
R671 10K
R672 10K
R673 330
R674 150
R678 10K
R679 47K
R680 47K
R681 47K
R682 47K
R683 15K
R684 6800
R685 3300
R686 6800
R687 1500
R688 22 1/4W
R689 1500
R690 150K
R691 47K
R692 47K
R693 6800
R694 6800
R695 10K
R696 18 2W
R697 10K
R698 33K
R699 1K
R6A0 1500
R6A1 2200
R6A2 330
R6A3 47K
R6A4 33K
R6A5 33K
R6A6 3300
R6A7 100
R6A8 100
R6A9 100
R6C0 680
R6C1 680
R6C2 1K
R6C3 15K
R6C4 15K
R6C5 68K
R6C6 680
R6C7 10K
R6H9 10K
C601 10 16V
C602 0.047
C603 4700P
C604 1 50V BP
C605 1 50V BP
C606 0.47 50V
C607 4700P
C608 0.47 50V
C609 0.01
C610 10 16V
C611 47 16V
C612 0.01
C614 4700
C615 0.01
C616 0.01
C617 47 16V
C618 1 50V BP
C619 47 16V
C620 0.047
C621 10 16V BP
C622 4.7 50V
C623 220 16V
C624 0.022
C625 10 16V
C626 1 50V
C627 1 50V
C628 0.068
C629 100 16V
C630 0.047
C631 0.22
C632 0.22
C633 10 16V
C634 0.047
C635 4.7 50V
C636 0.22
C637 0.01
C638 0.01
C639 1000P
C640 1000P
C641 220P
C642 220P
C643 4700P
C644 0.01
C645 47 16V
C646 47 16V
C647 47 16V
C648 0.01
C649 0.1
C650 0.1
C651 47 16V
C652 10P
C653 150P
C654 100P
C655 0.01
C656 47 16V

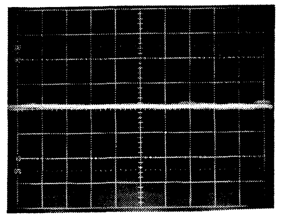


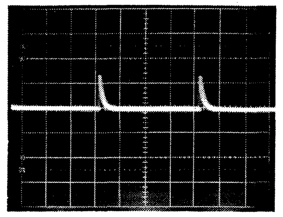


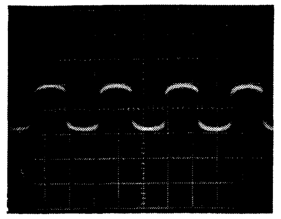
CAPA
C601
C602
C603
C604
C605
C606
C607
C608
C609
C610
C611
C612
C614
C615
C616
C617
C618
C619
C620
C621
C622
C623
C624
C625
C626
C627
C628
C629
C630
C631
C632
C633
C634
C635
C636
C637
C638
C639

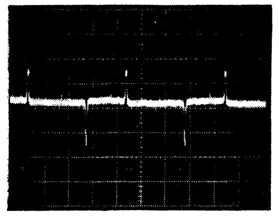
SCHEMATIC DIAGRAM (DE-1) PMO1

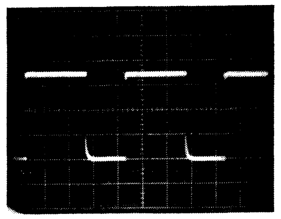

CAPSTAN PHASE
CYLYNDER SPEED
CYLYNDER PHASE
TO MECHA J201
1 GND
2 CASSETE SW
3 END SENS
4 START SENS
TO MECHA J202
1 POS SW(B)
2 GND
3 POS SW(A)
4 DEW SENS
5 PHOTO COUP +B
6 REEL PLS(T)
7 N.C.
8 SAFTY TAB(L)
9 SOLENOID(+)
10 LED GND
11 SOLENOID(-)
12 SENSOR LED
TO DE-2
a X7
b E+5V
c R/S/F
d SW+5V
e SW+12V
f SOLENOID+B
g M+B
h CYL ERR
i PG/FG
j POWER OFF (H)
k C/R/S/F/R
l CAP EC
m VD
n GND
TO TT-1
a DE-SCK
b DE-SDA
c DE-RESET
d END
e START
f REC SPEED
g GND
TO MECHA J203
1 SW+12V
2 GND
3 PG1
4 PG2
(DIODE:1SS133)
MN6740VRDN (MONO)
IC63 MN6740VRDP (Hi-Fi)
1 VDD
2 ROATRY
3 HA.SW
4 ART.V.MM
5 ART.V.OUT
6 SLOW.TR.MM
7 SLOW.TR.R
8 T.PHOTO
9 S.PHOTO
10 CAE
11 CYL.ET
12 AUTO TRK.
13 VSS
14 REEL
15 A.SH
16 AFB
17 AFG
18 VDA
19 VSA
20 QRE
21 IRE
22 GND(CTL)
23 CTL IN
24 CTL P
25 CP 1
26 CP 2
27 CN 1
28 CN 2
29 CTL
30 PG/FG
31 PGMM
32 FULL ERASE
33 D.REC(H)
34 D.A REC
35 AUTO DET
36 REC(H)
37 TRICK(L)
38
76 ENV.SW
75 TST
74 POS1 B
73 POS2 A
72 CASS.SW
71
70 SERVICE/TEST
69 NTSC/PAL
68 SP/SLP STAB
67 SP/LP/SLP(MOD)
66 DEW(H)
65 RESET
64 OSC2
63 OSC1
62 POWER OFF(H)
61 PLAY ON(H)
60 TV/VCR
59 V-LINE /TUNER
58 GND
57 SNSLED
56 NTSC(L)OUT
55 C/R/S/F/R
54
53 SOLENOID
52 C.EMPHA
51 A.EE(H)
50 V EE(L)
49 A.MUTE(H)
48 F.ADV
47 CASS DOWN
46 SCAN
45 S.DATA
44 S.CLOCK
43
42 RSF
41 CURL IN
40 HSW
39 X2 PLAY
Q619 C2058
Q617 D2258
Q618 C2458
Q616 D592
Q614 D1423
Q613 B1237
Q615 A1048
Q611 C2458
Q612 B1237
Q610 A1048
Q607 C2458
X601 7.15909MHz
L602 100
TP
TP61
TP65
TP CTL
①
②
③
④
⑤
⑥
⑦
4
5
6
7
8

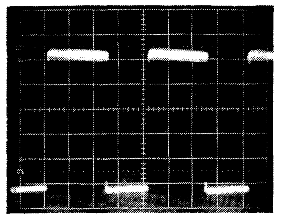

①IC63 Pin10 PB SP
1V/Div. 1msec/Div.

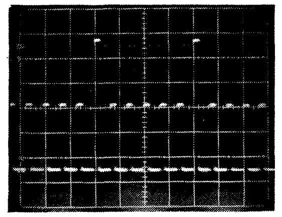

②IC63 Pin13 PB SP
500mV/Div. 5msec/Div.

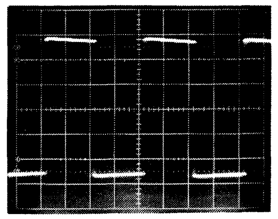

③IC63 Pin16 PB SP
500mV/Div. 0.5msec/Div.


④IC63 Pin27 PAL PB SP
1V/Div. 10msec/Div.


④IC63 Pin27 PAL REC SP
1V/Div. 10msec/Div.


⑤IC63 Pin29 PB SP
1V/Div. 10msec/Div.


⑥IC63 Pin30 PB SP
1V/Div. 10msec/Div.


⑦IC63 Pin40 PB SP
1V/Div. 10msec/Div.

CAPACITORS	
C601	B2
C602	B2
C603	B2
C604	B1
C605	C1
C606	B2
C607	B2
C608	B2
C609	A4
C610	A3
C611	A4
C612	B4
C614	B4
C615	B4
C616	B4
C617	B4
C618	B4
C619	C4
C620	C4
C621	C4
C622	C4
C623	D4
C624	C4
C625	D4
C626	D4
C627	D5
C628	D4
C629	C4
C630	D4
C631	D4
C632	D4
C633	D3
C634	D4
C635	D4
C636	E4
C637	E5
C638	E5
C639	D1
C640	D1
C641	E6
C642	E6
C643	D6
C644	D6
C645	C8
C646	C7
C647	C8
C648	B6
C649	B6
C650	B6
C651	B7
C652	B7
C653	B7
C654	B7
C655	B7
C656	B8
C666	D3

DIODES	
D601	B1
D602	B1
D603	E4
D604	C4
D605	C5
D606	D4
D607	E4
D608	E6
D609	C7
D610	B7
D611	C8
D612	B7
D613	B7
D614	B7
D630	B4
D631	D6
D633	A3

IC's	
IC61	C2
IC62	D1
IC63	A5

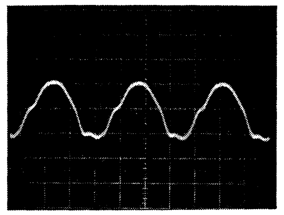
CONNECTORS	
J201	A8
J202	B8
J203	F8

COILS	
L601	C3
L602	B7

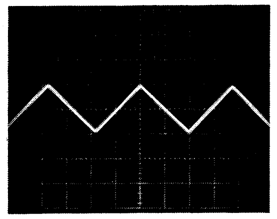
TRANSISTORS	
Q601	A2
Q602	B1
Q603	B1
Q604	B2
Q605	D3
Q606	D4
Q607	D4
Q608	D4
Q609	A3
Q610	D6
Q611	D7
Q612	D7
Q613	C8
Q614	C7
Q615	C7
Q616	C8
Q617	B8
Q618	C7
Q619	B7

RESISTORS	
R6A0	B7
R6A1	B8
R6A2	B8
R6A3	B6
R6A4	B6
R6A5	B6
R6A6	B6
R6A7	B6
R6A8	B6
R6A9	B6
R6C0	A6
R6C1	A6
R6C2	A6
R6C3	A6
R6C4	A6
R6C5	A6
R6C6	A6
R6C7	A5
R6H9	C6
R601	A1
R602	A2
R603	A1
R604	B1
R605	A2
R606	B2
R607	B2
R608	A2
R609	B2
R610	A2
R611	B1
R612	B2
R613	B2
R614	B2
R615	B2
R616	B2
R617	C2
R618	C2
R619	C2
R620	C1
R624	E2
R625	A3
R626	B3
R627	B3
R628	B4
R629	B4
R630	B4
R631	B3
R632	C3
R633	D3
R634	D3
R635	C4
R636	D4
R637	C4
R638	C4
R639	C4
R640	C4
R641	D4
R642	D4
R643	D4
R644	D4
R645	D4
R646	D4
R647	C4
R648	D4
R649	D4
R650	D4
R651	D4
R652	E4
R653	E4
R654	E4
R655	E4
R656	D2
R657	D2
R658	D2
R659	C2
R660	D7
R661	C2
R662	C2
R663	C1
R664	D1
R665	E6
R666	E6
R667	E6
R668	D6
R669	D6
R671	D6
R672	D6
R673	D7
R674	D7
R678	D6
R679	C6
R680	C6
R681	D7
R682	D7
R683	C7
R684	C7
R685	C7
R686	C7
R687	C7
R688	C7
R689	C7
R690	C7
R691	C7
R692	B7
R693	B7
R694	B7
R695	B7
R696	B8
R697	B7
R698	B7
R699	B7

X-TAL	
X601	B7



⑧IC22 Pin1 PB SP
5V/Div. 2msec/Div.



⑨IC22 Pin10 PB SP
0.5V/Div. 2msec/Div.

CAPACITORS	
C201	D3
C202	D4
C203	D4
C204	D4
C205	D4
C206	D4
C207	D5
C208	D5
C209	C4
C210	C4
C212	C3
C213	D3
C214	E5
C215	E6
C216	D6
C217	E6
C218	E6
C219	E7
C220	E7
C221	E7
C222	C7
C223	C7
C224	C6
C225	C6
C226	C6
C227	D4
C657	C2
C658	C2
C659	D2
C660	D2

IC's	
IC21	D5
IC22	D7

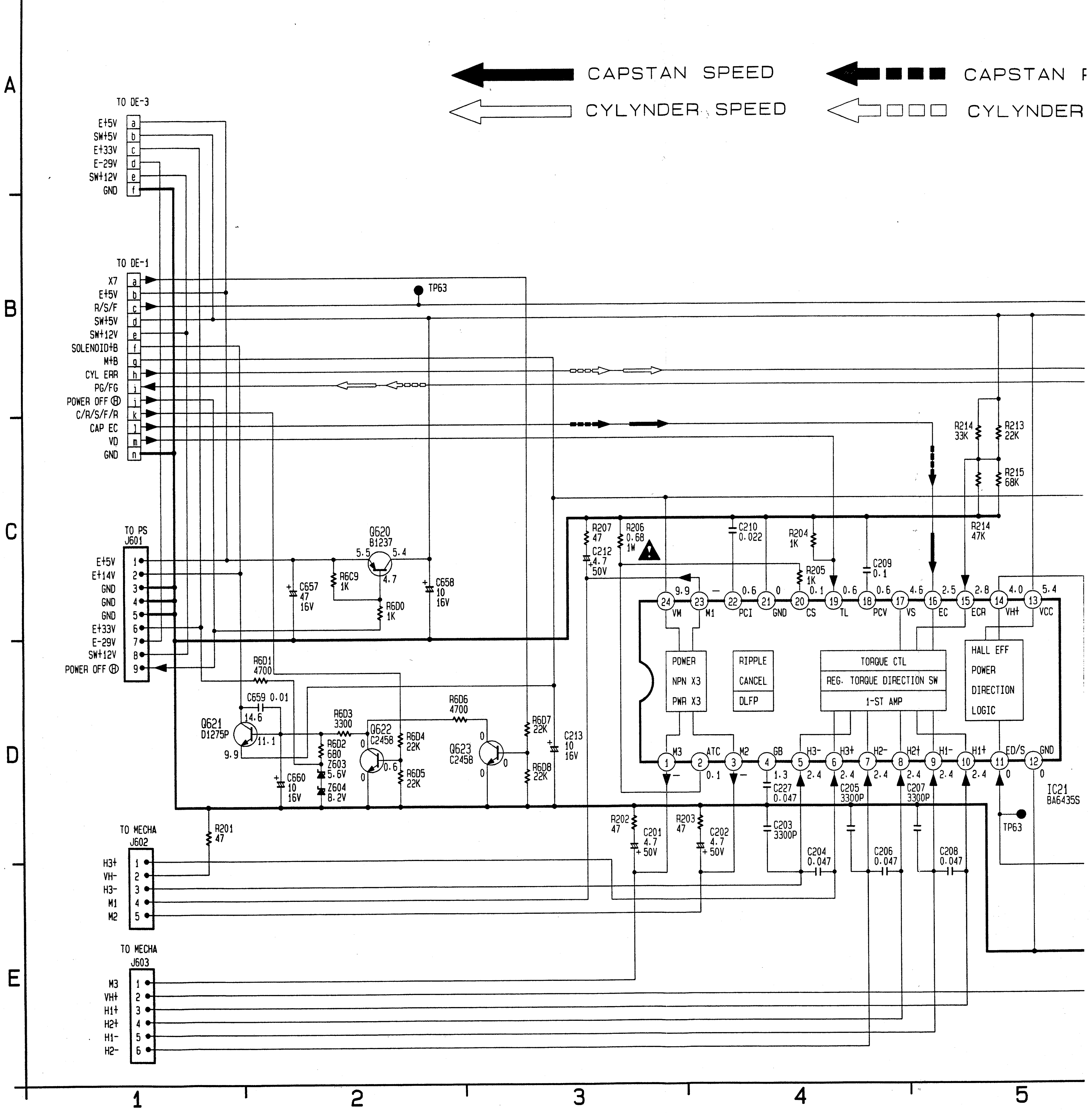
CONNECTORS	
J601	C1
J602	D1
J603	E1
J604	B8
J605	C8
J607	A8

TRANSISTORS	
Q620	C2
Q621	D1
Q622	D2
Q623	D3

RESISTORS	
R6C9	C2
R6D0	C2
R6D1	D2
R6D2	D2
R6D3	D2
R6D4	D2
R6D5	D2
R6D6	D2
R6D7	D3
R6D8	D3
R201	D1
R202	D3
R203	D4
R204	C4
R205	C4
R206	C3
R207	C3
R208	E6
R209	C7
R210	C6
R211	D6
R212	D6
R213	C5
R214	C5
R214	C5
R215	C5

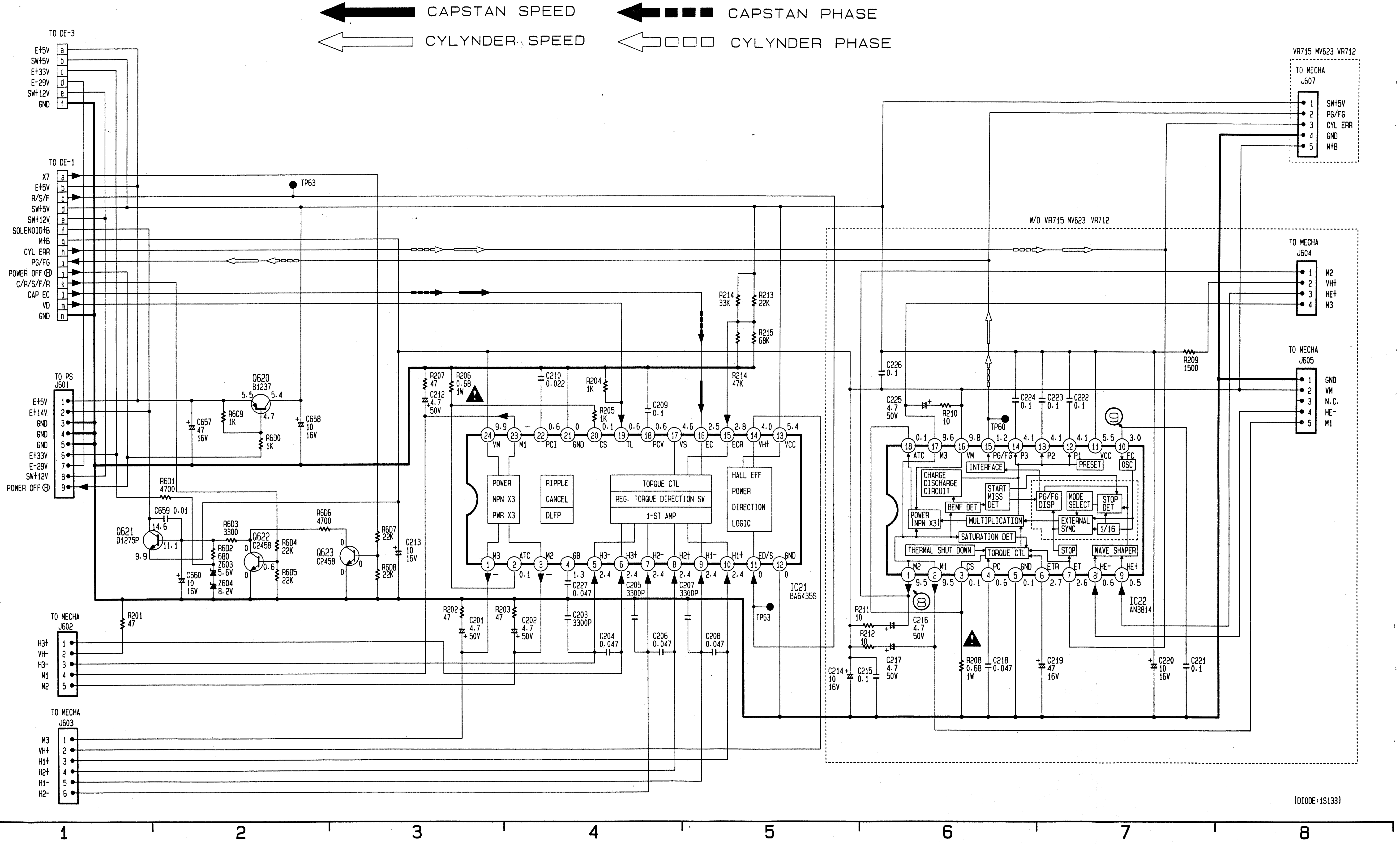
ZENERS	
Z603	D2
Z604	D2

DRIVER SCHEMATIC DIAGRAM (DE-2


CAPSTAN SPEED
CYLYNDER SPEED
CAPSTAN
CYLYNDER
A
B
C
D
E
1
2
3
4
5
TO DE-3
E+5V
SW+5V
E+33V
E-29V
SW+12V
GND
a
b
c
d
e
f
TO DE-1
X7
E+5V
R/S/F
SW+5V
SW+12V
SOLENOID+B
M+B
CYL ERR
PG/FG
POWER OFF Ⓗ
C/R/S/F/R
CAP EC
VD
GND
g
h
i
j
k
l
m
n
TP63
TO PS
J601
E+5V
E+14V
GND
GND
GND
E+33V
E-29V
SW+12V
POWER OFF Ⓗ
Q620
B1237
5.5
5.4
4.7
R6C9
1K
R6D0
1K
C657
47
16V
C658
10
16V
R6D1
4700
C659 0.01
Q621
D1275P
14.6
11.1
9.9
C660
10
16V
R6D3
3300
R6D2
680
Z603
5.6V
Z604
8.2V
Q622
C2458
0
0.6
R6D4
22K
R6D5
22K
R6D6
4700
Q623
C2458
R6D7
22K
R6D8
22K
C213
10
16V
R207
47
C212
4.7
50V
R206
0.68
1W
C210
0.022
R204
1K
R205
1K
C209
0.1
R214
33K
R213
22K
R215
68K
R214
47K
9.9
0.6
0
0.1
0.6
0.6
4.6
2.5
2.8
4.0
5.4
24 VM
23 M1
22 PCI
21 GND
20 CS
19 TL
18 PCV
17 VS
16 EC
15 ECR
14 VH+
13 VCC
POWER
NPN X3
PWR X3
RIPPLE
CANCEL
DLFP
TORQUE CTL
REG. TORQUE DIRECTION SW
1-ST AMP
HALL EFF
POWER
DIRECTION
LOGIC
1 M3
2 ATC
3 M2
4 GB
5 H3-
6 H3+
7 H2-
8 H2+
9 H1-
10 H1+
11 ED/S
12 GND
0.1
1.3
2.4
IC21
BA6435S
C227
0.047
C205
3300P
C207
3300P
R202
47
C201
4.7
50V
R203
47
C202
4.7
50V
C203
3300P
C204
0.047
C206
0.047
C208
0.047
TO MECHA
J602
R201
47
H3+
VH-
H3-
M1
M2
TO MECHA
J603
M3
VH+
H1+
H2+
H1-
H2-

DRIVER SCHEMATIC DIAGRAM (DE-2)

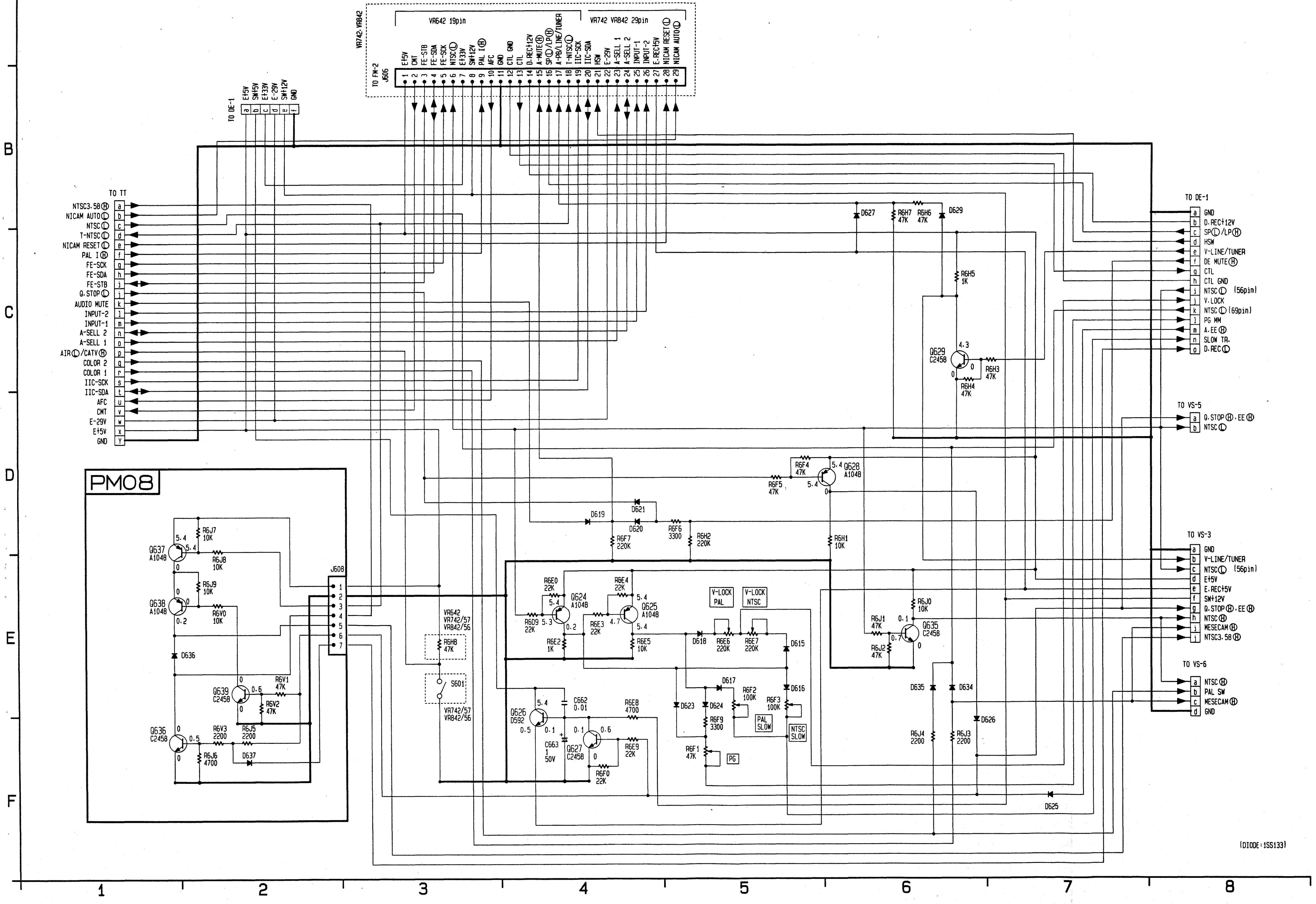
PMO1



CAPSTAN SPEED
CAPSTAN PHASE
CYLYNDER SPEED
CYLYNDER PHASE
TO DE-3
E+5V a
SW+5V b
E+33V c
E-29V d
SW+12V e
GND f
TO DE-1
X7 a
E+5V b
R/S/F c
SW+5V d
SW+12V e
SOLENOID+B f
M+B g
CYL ERR h
PG/FG i
POWER OFF ⊕ j
C/R/S/F/R k
CAP EC l
VD m
GND n
TP63
TO PS J601
E+5V 1
E+14V 2
GND 3
GND 4
GND 5
E+33V 6
E-29V 7
SW+12V 8
POWER OFF ⊕ 9
Q620 B1237
R6C9 1K
R6D0 1K
C657 47 16V
C658 10 16V
R6D1 4700
C659 0.01
Q621 D1275P
R6D3 3300
R6D2 680
Z603 5.6V
Z604 8.2V
C660 10 16V
Q622 C2458
R6D4 22K
R6D5 22K
R6D6 4700
Q623 C2458
R6D7 22K
R6D8 22K
C213 10 16V
R207 47
R206 0.68 1W
C212 4.7 50V
C210 0.022
R204 1K
R205 1K
C209 0.1
R214 33K
R213 22K
R215 68K
R214 47K
IC21 BA6435S
VM M1 PCI GND CS TL PCV VS EC ECR VH+ VCC
M3 ATC M2 GB H3- H3+ H2- H2+ H1- H1+ FD/S GND
POWER NPN X3 PWR X3
RIPPLE CANCEL DLFP
TORQUE CTL REG. TORQUE DIRECTION SW 1-ST AMP
HALL EFF POWER DIRECTION LOGIC
C227 0.047
C203 3300P
C205 3300P
C207 3300P
C204 0.047
C206 0.047
C208 0.047
R202 47
C201 4.7 50V
R203 47
C202 4.7 50V
R201 47
TO MECHA J602
H3+ 1
VH- 2
H3- 3
M1 4
M2 5
TO MECHA J603
M3 1
VH+ 2
H1+ 3
H2+ 4
H1- 5
H2- 6
VR715 MV623 VR712
TO MECHA J607
SW+5V 1
PG/FG 2
CYL ERR 3
GND 4
M+B 5
W/O VR715 MV623 VR712
TO MECHA J604
M2 1
VH+ 2
HE+ 3
M3 4
TO MECHA J605
GND 1
VM 2
N.C. 3
HE- 4
M1 5
R209 1500
C226 0.1
C225 4.7 50V
R210 10
TP60
C224 0.1
C223 0.1
C222 0.1
IC22 AN3814
ATC M3 VM PG/FG P3 P2 P1 VCC FC
M2 M1 CS PC GND ETR ET HE- HE+
INTERFACE
PRESET
OSC
CHARGE DISCHARGE CIRCUIT
START MISS DET
BEMF DET
PG/FG DISP
MODE SELECT
STOP DET
POWER (NPN X3)
MULTIPLICATION
EXTERNAL SYNC
1/16
SATURATION DET
THERMAL SHUT DOWN
TORQUE CTL
STOP
WAVE SHAPER
R211 10
R212 10
C216 4.7 50V
C214 10 16V
C215 0.1
C217 4.7 50V
R208 0.68 1W
C218 0.047
C219 47 16V
C220 10 16V
C221 0.1
1 2 3 4 5 6 7 8

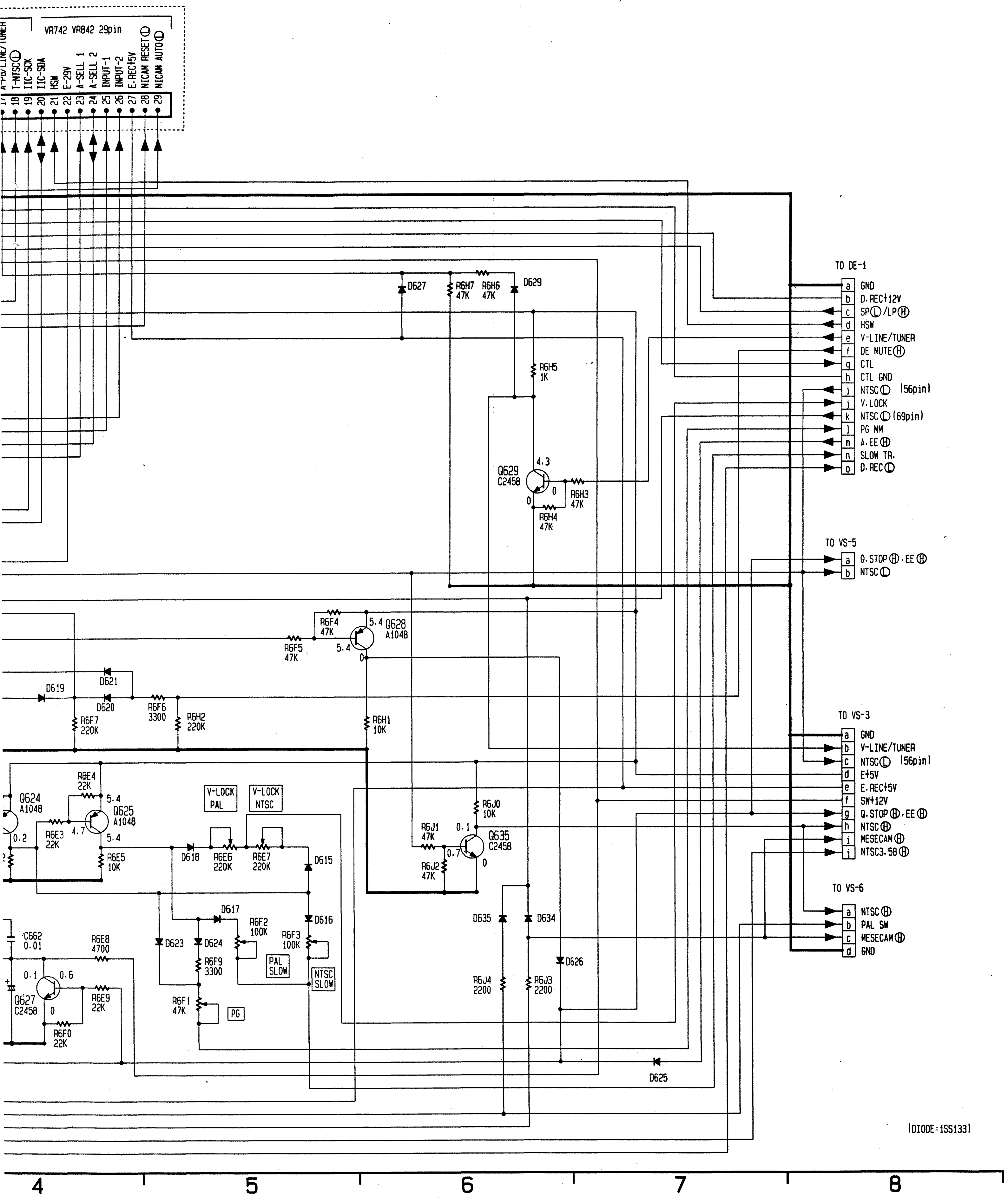
(DIODE:1S133)

SERVO AND SYSTEM CONTROL SCHEMATIC DIAGRAM (DE-3) PMO1



A
B
C
D
E
F
1
2
3
4
5
6
7
8
VR742, VR842
TO FM-2
J606
VR642 19pin
VR742 VR842 29pin
1 E+5V
2 CMT
3 FE-STB
4 FE-SDA
5 FE-SCK
6 NTSC Ⓛ
7 E+33V
8 SW+12V
9 PAL I Ⓗ
10 AFC
11 GND
12 CTL GND
13 CTL
14 D.REC+12V
15 A-MUTE Ⓗ
16 SP Ⓛ/LP Ⓗ
17 A-PB/LINE/TUNER
18 T-NTSC Ⓛ
19 IIC-SCK
20 IIC-SDA
21 HSW
22 E-29V
23 A-SELL 1
24 A-SELL 2
25 INPUT-1
26 INPUT-2
27 E.REC+5V
28 NICAM RESET Ⓛ
29 NICAM AUTO Ⓛ
TO DE-1
a E+5V
b SW+5V
c E+33V
d E-29V
e SW+12V
f GND
TO TT
NTSC3.58 Ⓗ a
NICAM AUTO Ⓛ b
NTSC Ⓛ c
T-NTSC Ⓛ d
NICAM RESET Ⓛ e
PAL I Ⓗ f
FE-SCK g
FE-SDA h
FE-STB i
Q.STOP Ⓛ j
AUDIO MUTE k
INPUT-2 l
INPUT-1 m
A-SELL 2 n
A-SELL 1 o
AIR Ⓛ/CATV Ⓗ p
COLOR 2 q
COLOR 1 r
IIC-SCK s
IIC-SDA t
AFC u
CMT v
E-29V w
E+5V x
GND Y
TO DE-1
a GND
b D.REC+12V
c SP Ⓛ/LP Ⓗ
d HSW
e V-LINE/TUNER
f DE MUTE Ⓗ
g CTL
h CTL GND
i NTSC Ⓛ (56pin)
j V.LOCK
k NTSC Ⓛ (69pin)
l PG MM
m A.EE Ⓗ
n SLOW TR.
o D.REC Ⓛ
TO VS-5
a Q.STOP Ⓗ.EE Ⓗ
b NTSC Ⓛ
TO VS-3
a GND
b V-LINE/TUNER
c NTSC Ⓛ (56pin)
d E+5V
e E.REC+5V
f SW+12V
g Q.STOP Ⓗ.EE Ⓗ
h NTSC Ⓗ
i MESECAM Ⓗ
j NTSC3.58 Ⓗ
TO VS-6
a NTSC Ⓗ
b PAL SW
c MESECAM Ⓗ
d GND
D627
R6H7 47K
R6H6 47K
D629
R6H5 1K
Q629 C2458
4.3
0
0
R6H3 47K
R6H4 47K
R6F4 47K
5.4
Q628 A1048
R6F5 47K
5.4
0
D619
D621
D620
R6F6 3300
R6H2 220K
R6F7 220K
R6H1 10K
PM08
Q637 A1048
5.4
5.4
R6J7 10K
R6J8 10K
Q638 A1048
0
0
0.2
R6J9 10K
R6V0 10K
D636
J608
1
2
3
4
5
6
7
Q639 C2458
0
0.6
0
R6V1 47K
R6V2 47K
Q636 C2458
0
0.5
0
R6V3 2200
R6J5 2200
R6J6 4700
D637
VR642
VR742/57
VR842/56
R6H8 47K
S601
VR742/57
VR842/56
R6E0 22K
5.4
Q624 A1048
R6D9 22K
5.3
0.2
R6E2 1K
R6E4 22K
5.4
Q625 A1048
R6E3 22K
4.7
5.4
R6E5 10K
V-LOCK PAL
V-LOCK NTSC
D618
R6E6 220K
R6E7 220K
D615
D617
D616
R6F2 100K
R6F3 100K
D623
D624
R6F9 3300
PAL SLOW
NTSC SLOW
R6F1 47K
PG
Q626 D592
5.4
0.5
0.1
C662 0.01
C663 1 50V
Q627 C2458
0.1
0.6
0
R6E8 4700
R6E9 22K
R6F0 22K
R6J0 10K
R6J1 47K
0.1
0.7
Q635 C2458
0
R6J2 47K
D635
D634
D626
R6J4 2200
R6J3 2200
D625
(DIODE: 1SS133)

SCHEMATIC DIAGRAM (DE-3) PMO1


VR742 VR842 29pin
T-NTSC
IIC-SCK
IIC-SDA
HSW
E-29V
A-SELL 1
A-SELL 2
INPUT-1
INPUT-2
E.REC+5V
NICAM RESET
NICAM AUTO
TO DE-1
GND
D.REC+12V
SP/LP
HSW
V-LINE/TUNER
DE MUTE
CTL
CTL GND
NTSC (56pin)
V.LOCK
NTSC (69pin)
PG MM
A.EE
SLOW TR.
D.REC
TO VS-5
Q.STOP·EE
NTSC
TO VS-3
GND
V-LINE/TUNER
NTSC (56pin)
E+5V
E.REC+5V
SW+12V
Q.STOP·EE
NTSC
MESECAM
NTSC3.58
TO VS-6
NTSC
PAL SW
MESECAM
GND
D627
R6H7 47K
R6H6 47K
D629
R6H5 1K
Q629 C2458
R6H3 47K
R6H4 47K
R6F4 47K
R6F5 47K
Q628 A1048
D619
D621
D620
R6F6 3300
R6F7 220K
R6H2 220K
R6H1 10K
Q624 A1048
R6E4 22K
Q625 A1048
R6E3 22K
R6E5 10K
V-LOCK PAL
V-LOCK NTSC
D618
R6E6 220K
R6E7 220K
D615
R6J0 10K
R6J1 47K
Q635 C2458
R6J2 47K
C662 0.01
R6E8 4700
D617
R6F2 100K
R6F3 100K
D616
D623
D624
R6F9 3300
PAL SLOW
NTSC SLOW
Q627 C2458
R6E9 22K
R6F0 22K
R6F1 47K
PG
D635
D634
D626
R6J4 2200
R6J3 2200
D625
(DIODE:1SS133)
4
5
6
7
8

CAPACITORS	
C662	E4
C663	F4

DIODES	
D615	E5
D616	E5
D617	E5
D618	E5
D619	D4
D620	D4
D621	D4
D623	E5
D624	E5
D625	F7
D626	F6
D627	B6
D629	B6
D634	E6
D635	E6
D636	E2
D637	F2

CONNECTORS	
J606	B3
J608	E2

TRANSISTORS	
Q624	E4
Q625	E4
Q626	E4
Q627	F4
Q628	D6
Q629	C6
Q635	E6
Q636	F1
Q637	D1
Q638	E1
Q639	E2

RESISTORS	
R6D9	E4
R6E0	E4
R6E2	E4
R6E3	E4
R6E4	E4
R6E5	E4
R6E6	E5
R6E7	E5
R6E8	E4
R6E9	F4
R6F0	F4
R6F1	F5
R6F2	E5
R6F3	E5
R6F4	D5
R6F5	D5
R6F6	D5
R6F7	D4
R6F9	F5
R6H1	D6
R6H2	D5
R6H3	C7
R6H4	C6
R6H5	C6
R6H6	B6
R6H7	B6
R6H8	E3
R6J0	E6
R6J1	E6
R6J2	E6
R6J3	F6
R6J4	F6
R6J5	F2
R6J6	F2
R6J7	D2
R6J8	E2
R6J9	E2
R6V0	E2
R6V1	E1
R6V2	E2
R6V3	F2

SWITCH	
S601	E3

CAPACITORS	
C6K0	E6
C6K1	E5
C6K2	E5
C6K3	F2
C6K4	C5
C6K5	C5
C6K6	D4
C6K7	D5
C6K8	E6

DIODES	
D6K0	F6
D6K1	B3
D6K2	B3

IC's	
IC6K	D3
IC6L	B6
IC6M	E5
IC6N	E6

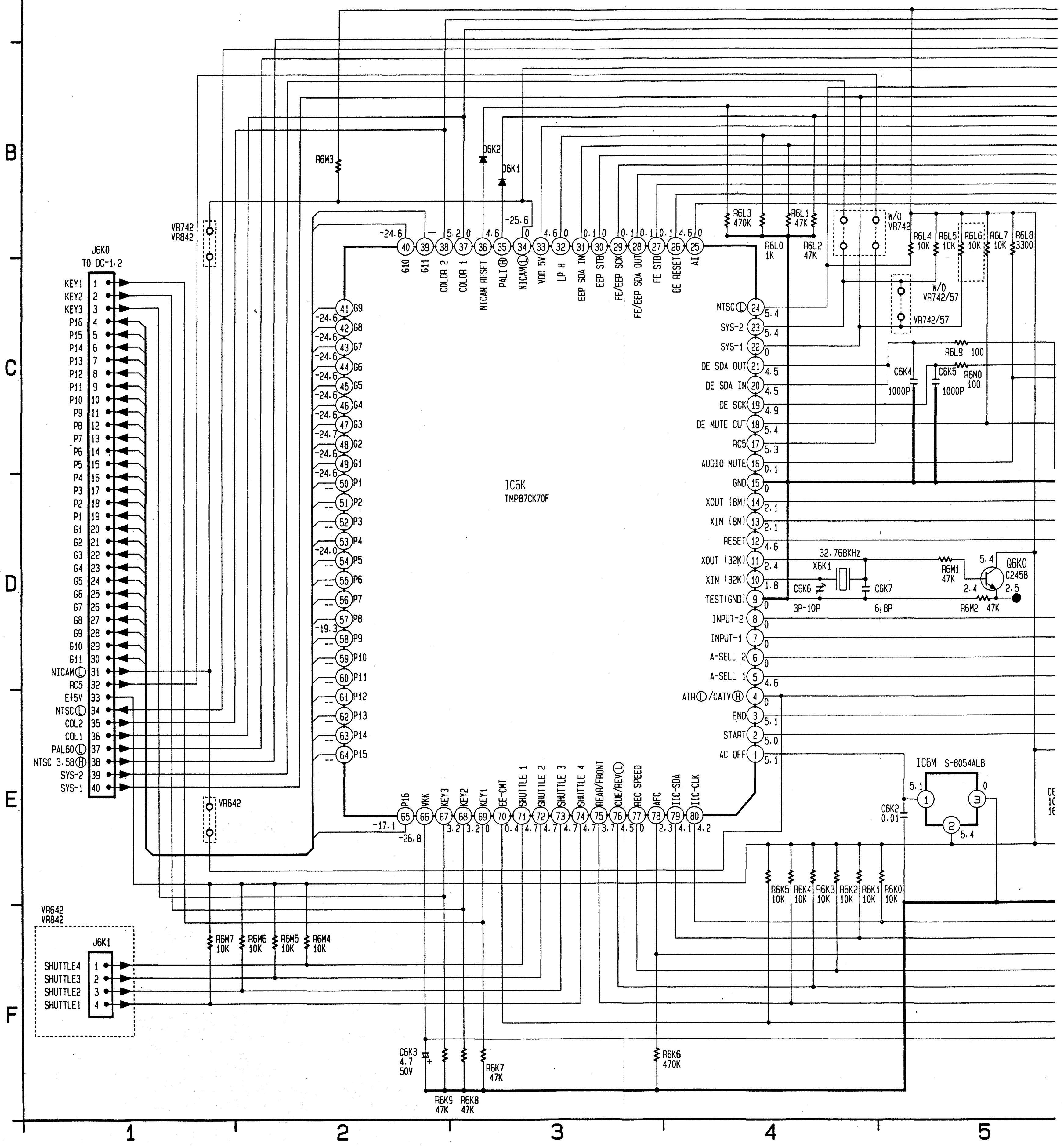
CONNECTORS	
J6K0	B1
J6K1	F1

TRANSISTOR	
Q6K0	D5

RESISTORS	
R6K0	E5
R6K1	E4
R6K2	E4
R6K3	E4
R6K4	E4
R6K5	E4
R6K6	F4
R6K7	F3
R6K8	F3
R6K9	F2
R6L0	B4
R6L1	B4
R6L2	B4
R6L3	B4
R6L4	B5
R6L5	B5
R6L6	B5
R6L7	B5
R6L8	B5
R6L9	C5
R6M0	C5
R6M1	D5
R6M2	D5
R6M3	B2
R6M4	F2
R6M5	F2
R6M6	F2
R6M7	F1

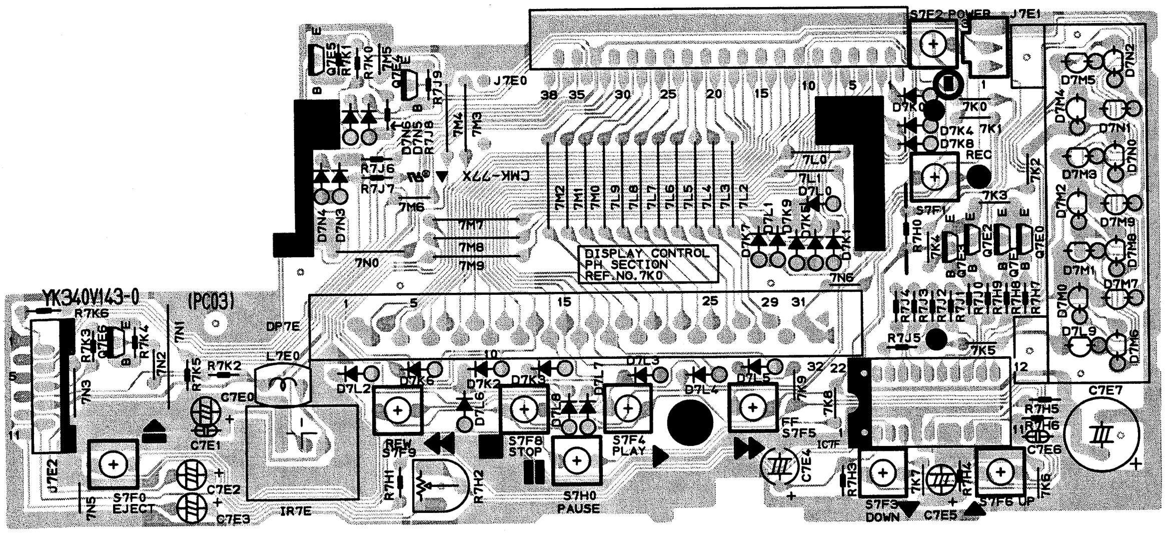
X-TAL's	
X6K0	D6
X6K1	D4

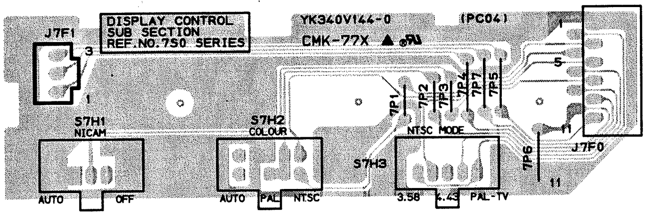
TIMER TUNING SCHEMATIC DIAGRAM (TT


A
B
C
D
E
F
1
2
3
4
5
J6K0
TO DC-1.2
KEY1
KEY2
KEY3
P16
P15
P14
P13
P12
P11
P10
P9
P8
P7
P6
P5
P4
P3
P2
P1
G1
G2
G3
G4
G5
G6
G7
G8
G9
G10
G11
NICAM
RC5
E+5V
NTSC
COL2
COL1
PAL60
NTSC 3.58
SYS-2
SYS-1
VR742
VR842
VR642
R6M3
D6K2
D6K1
IC6K
TMP87CK70F
G10
G11
COLOR 2
COLOR 1
NICAM RESET
PAL1
NICAM
VDD 5V
LP H
EEP SDA IN
EEP STB
FE/EEP SCK
FE/EEP SDA OUT
FE STB
DE RESET
AI
NTSC
SYS-2
SYS-1
DE SDA OUT
DE SDA IN
DE SCK
DE MUTE CUT
RC5
AUDIO MUTE
GND
XOUT (8M)
XIN (8M)
RESET
XOUT (32K)
XIN (32K)
TEST(GND)
INPUT-2
INPUT-1
A-SELL 2
A-SELL 1
AIR/CATV
END
START
AC OFF
P16
VKK
KEY3
KEY2
KEY1
EE-CMT
SHUTTLE 1
SHUTTLE 2
SHUTTLE 3
SHUTTLE 4
REAR/FRONT
CUE/REV
REC SPEED
AFC
IIC-SDA
IIC-CLK
R6L3 470K
R6L1 47K
R6L0 1K
R6L2 47K
W/O VR742
R6L4 10K
R6L5 10K
R6L6 10K
R6L7 10K
R6L8 3300
W/O VR742/57
VR742/57
R6L9 100
C6K4 1000P
C6K5 1000P
R6M0 100
32.768KHz
X6K1
C6K6 3P-10P
C6K7 6.8P
R6M1 47K
Q6K0 C2458
R6M2 47K
IC6M S-8054ALB
C6K2 0.01
R6K5 10K
R6K4 10K
R6K3 10K
R6K2 10K
R6K1 10K
R6K0 10K
J6K1
SHUTTLE4
SHUTTLE3
SHUTTLE2
SHUTTLE1
R6M7 10K
R6M6 10K
R6M5 10K
R6M4 10K
C6K3 4.7 50V
R6K9 47K
R6K8 47K
R6K7 47K
R6K6 470K

DISPLAY CONTROL P.C.B DRAWING PC03 PC04

"Inserted components are dependent on the set type" (VR742)


A
B
C
1
2
3
4
YK340V143-0 (PC03)
DISPLAY CONTROL PH. SECTION REF.NO.7K0
CMK-77X
J7E0
S7F2 POWER
J7E1
REC
DP7E
IR7E
S7F0 EJECT
S7F9 REW
S7F8 STOP
S7H0 PAUSE
S7F4 PLAY
S7F5 FF
S7F1
S7F3 DOWN
S7F6 UP
IC7F
L7E0
C7E7
J7E2


YK340V144-0 (PC04)
DISPLAY CONTROL SUB SECTION REF.NO.750 SERIES
CMK-77X
J7F1
S7H1 NICAM
AUTO
OFF
S7H2 COLOUR
AUTO
PAL
NTSC
S7H3
NTSC MODE
3.58
4.43
PAL-TV
J7F0

PC04

CONNECTORS	
J7F0	C3
J7F1	C2

SWITCHES	
S7H1	C2
S7H2	C2
S7H3	C2

PC03

CAPACITORS	
C7E0	B1
C7E1	B1
C7E2	B1
C7E3	B1
C7E4	B3
C7E5	B3
C7E6	B4
C7E7	B4

DIODES	
D7K0	A3
D7K1	B3
D7K2	B2
D7K3	B2
D7K4	A3
D7K5	B3
D7K6	B2
D7K7	B3
D7K8	A3
D7K9	B3
D7L0	A3
D7L1	B3
D7L2	B2
D7L3	B2
D7L4	B3
D7L5	B3
D7L6	B2
D7L7	B2
D7L8	B2
D7L9	B4
D7M0	B4
D7M1	B4
D7M2	A4
D7M3	A4
D7M4	A4
D7M5	A4
D7M6	B4
D7M7	B4
D7M8	B4
D7M9	B4
D7N0	A4
D7N1	A4
D7N2	A4
D7N3	B2
D7N4	B2
D7N5	A2
D7N6	A2

FL-DISPLAY	
DP7E	B1

IC	
IC7F	B3

IR-RECEIVER	
IR7E	B2

CONNECTORS	
J7E0	A2
J7E1	A3
J7E2	B1

COIL	
L7E0	B1

TRANSISTORS	
Q7E0	B4
Q7E1	B3
Q7E2	B3
Q7E3	B3
Q7E4	A2
Q7E5	A2
Q7E6	B1

RESISTORS	
R7H0	B3
R7H1	B2
R7H2	B2
R7H3	B3
R7H4	B3
R7H5	B4
R7H6	B4
R7H7	B4
R7H8	B3
R7H9	B3
R7J0	B3
R7J1	B3
R7J2	B3
R7J3	B3
R7J4	B3
R7J5	B3
R7J6	A2
R7J7	A2
R7J8	A2
R7J9	A2
R7K0	A2
R7K1	A2
R7K2	B1
R7K3	B1
R7K4	B1
R7K5	B1
R7K6	B1

SWITCHES	
S7F0	B1
S7F1	B3
S7F2	A3
S7F3	B3
S7F4	B2
S7F5	B3
S7F6	B3
S7F8	B2
S7F9	B2
S7H0	B2

CAPACITORS

C7E0	D6
C7E1	D6
C7E2	D8
C7E3	D8
C7E4	C8
C7E5	C8
C7E6	C8
C7E7	D7

DIODES

D7K0	F3
D7K1	F3
D7K2	F3
D7K3	F3
D7K4	F3
D7K5	F3
D7K6	F3
D7K7	F3
D7K8	F4
D7K9	F4
D7L0	F4
D7L1	F4
D7L2	E4
D7L3	E4
D7L4	E4
D7L5	E4
D7L6	F4
D7L7	F4
D7L8	F4
D7L9	D6
D7M0	C6
D7M1	C6
D7M2	C6
D7M3	C6
D7M4	C6
D7M5	B6
D7M6	D6
D7M7	C6
D7M8	C6
D7M9	C6
D7N0	C6
D7N1	C6
D7N2	B6
D7N3	F6
D7N4	F6
D7N5	F6
D7N6	E6

FL-DISPLAY

DP7E	A1

IC

IC7F	B8

IR-RECEIVER

IR7E	D7

CONNECTORS

J7E0	C1
J7E1	B6
J7E2	E7
J7F0	E7
J7F1	F8

COIL

L7E0	D6

TRANSISTORS

Q7E0	B6
Q7E1	B6
Q7E2	B6
Q7E3	B7
Q7E4	E6
Q7E5	E6
Q7E6	F6

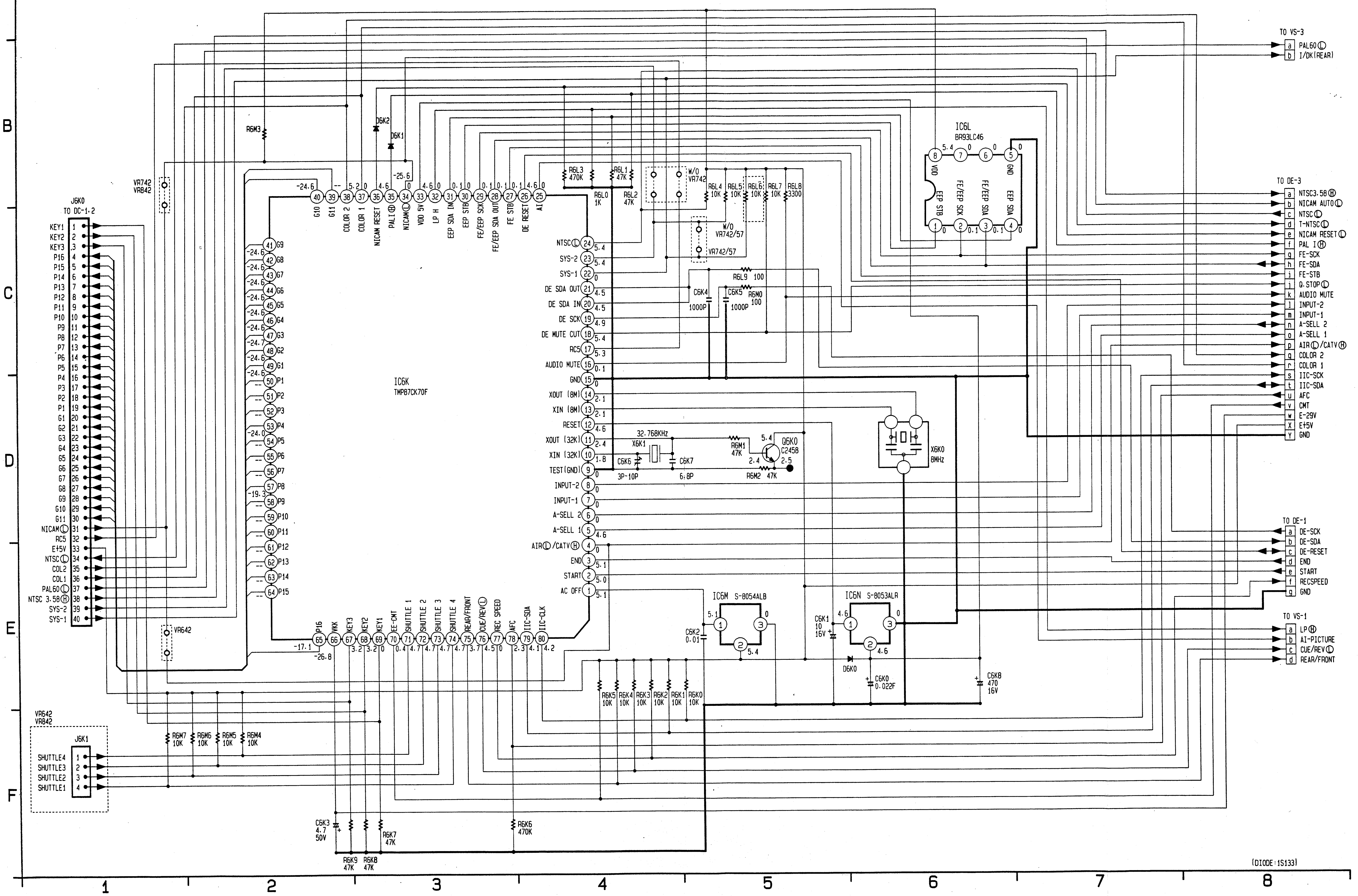
RESISTORS

R7H0	D6
R7H1	D8
R7H2	D8
R7H3	C8
R7H4	C8
R7H5	C8
R7H6	B8
R7H7	B7
R7H8	B7
R7H9	B7
R7J0	C7
R7J1	C7
R7J2	C7
R7J3	C7
R7J4	C7
R7J5	C7
R7J6	F5
R7J7	F6
R7J8	E6
R7J9	F6
R7K0	E6
R7K1	E6
R7K2	E6
R7K3	F7
R7K4	F7
R7K5	F7
R7K6	E6

SWITCHES

S7F0	E4
S7F1	E4
S7F2	E5
S7F3	E5
S7F4	F4
S7F5	F5
S7F6	F5
S7F7	F5
S7F8	F4
S7F9	F5
S7H0	F5
S7H1	E7
S7H2	E8
S7H3	E8

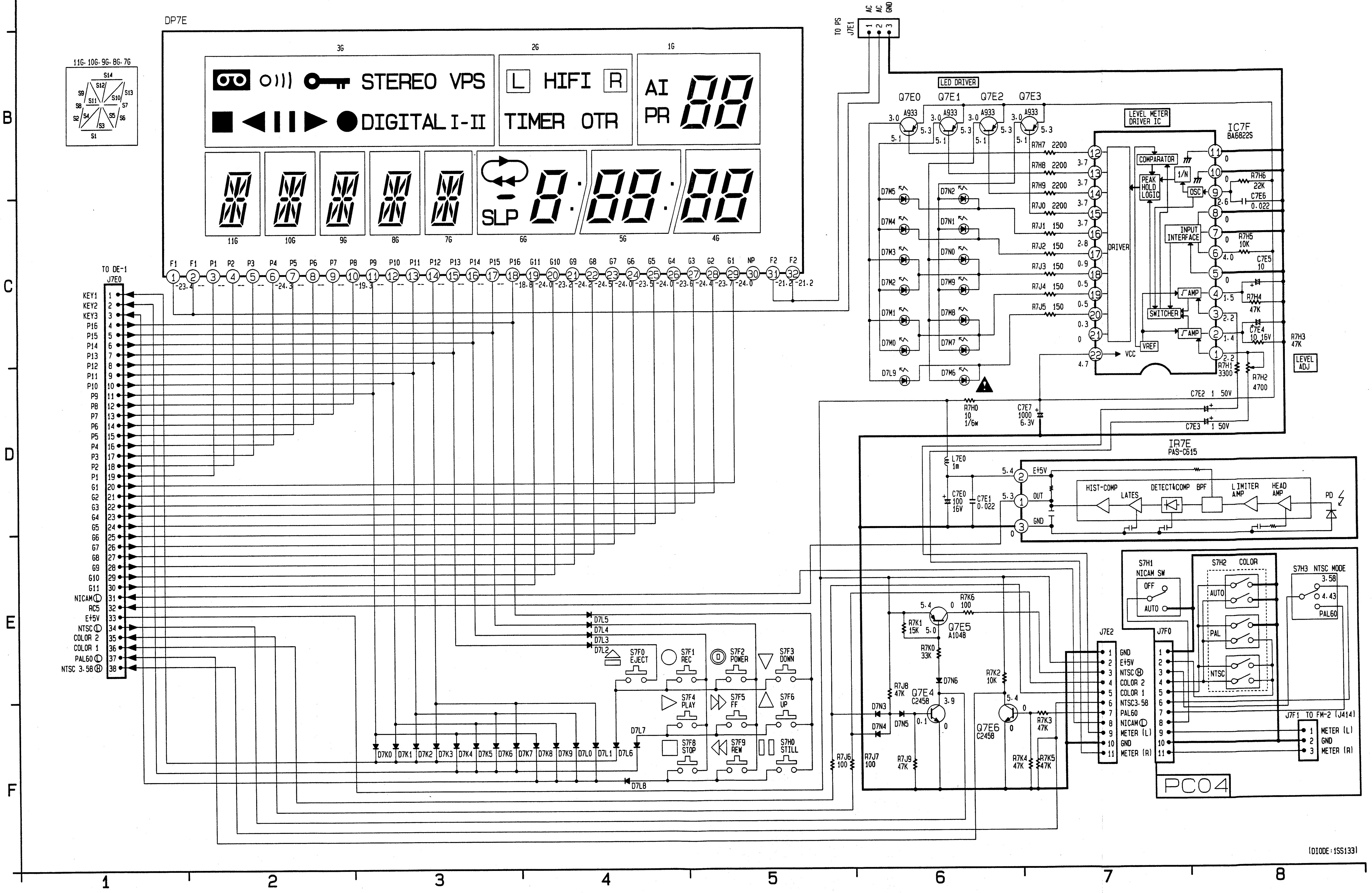
TIMER TUNING SCHEMATIC DIAGRAM (TT) PMO1



IC6K
TMP87CK70F
IC6L
BR93LC46
VDD
EEP STB
FE/EEP SCK
FE/EEP SDA
GND
EEP SDA
IC6M S-8054ALB
IC6N S-8053ALR
Q6K0
C2458
X6K0
8MHz
X6K1
32.768KHz
J6K0
TO DC-1.2
KEY1
KEY2
KEY3
P16
P15
P14
P13
P12
P11
P10
P9
P8
P7
P6
P5
P4
P3
P2
P1
G1
G2
G3
G4
G5
G6
G7
G8
G9
G10
G11
NICAM Ⓛ
RC5
E+5V
NTSC Ⓛ
COL2
COL1
PAL60 Ⓛ
NTSC 3.58 Ⓗ
SYS-2
SYS-1
J6K1
SHUTTLE4
SHUTTLE3
SHUTTLE2
SHUTTLE1
VR642
VR842
VR742
W/O VR742
W/O VR742/57
VR742/57
G10
G11
COLOR 2
COLOR 1
NICAM RESET
PAL Ⓗ
NICAM Ⓛ
VDD 5V
LP H
EEP SDA IN
EEP STB
FE/EEP SCK
FE/EEP SDA OUT
FE STB
DE RESET
AI
NTSC Ⓛ
SYS-2
SYS-1
DE SDA OUT
DE SDA IN
DE SCK
DE MUTE CUT
RC5
AUDIO MUTE
GND
XOUT (8M)
XIN (8M)
RESET
XOUT (32K)
XIN (32K)
TEST(GND)
INPUT-2
INPUT-1
A-SELL 2
A-SELL 1
AIR Ⓛ /CATV Ⓗ
END
START
AC OFF
P16
VKK
KEY3
KEY2
KEY1
EE-CMT
SHUTTLE 1
SHUTTLE 2
SHUTTLE 3
SHUTTLE 4
REAR/FRONT
CUE/REV Ⓛ
REC SPEED
AFC
IIC-SDA
IIC-CLK
R6M3
D6K2
D6K1
R6L3 470K
R6L1 47K
R6L0 1K
R6L2 47K
R6L4 10K
R6L5 10K
R6L6 10K
R6L7 10K
R6L8 3300
R6L9 100
R6M0 100
C6K4 1000P
C6K5 1000P
C6K6 3P-10P
C6K7 6.8P
R6M1 47K
R6M2 47K
C6K2 0.01
C6K1 10 16V
D6K0
C6K0 0.022F
C6K8 470 16V
R6K5 10K
R6K4 10K
R6K3 10K
R6K2 10K
R6K1 10K
R6K0 10K
R6M7 10K
R6M6 10K
R6M5 10K
R6M4 10K
C6K3 4.7 50V
R6K7 47K
R6K6 470K
R6K9 47K
R6K8 47K
TO VS-3
PAL60 Ⓛ
I/DK(REAR)
TO DE-3
NTSC3.58 Ⓗ
NICAM AUTO Ⓛ
NTSC Ⓛ
T-NTSC Ⓛ
NICAM RESET Ⓛ
PAL I Ⓗ
FE-SCK
FE-SDA
FE-STB
Q.STOP Ⓛ
AUDIO MUTE
INPUT-2
INPUT-1
A-SELL 2
A-SELL 1
AIR Ⓛ /CATV Ⓗ
COLOR 2
COLOR 1
IIC-SCK
IIC-SDA
AFC
CMT
E-29V
E+5V
GND
TO DE-1
DE-SCK
DE-SDA
DE-RESET
END
START
RECSPEED
GND
TO VS-1
LP Ⓗ
AI-PICTURE
CUE/REV Ⓛ
REAR/FRONT
A
B
C
D
E
F
1
2
3
4
5
6
7
8

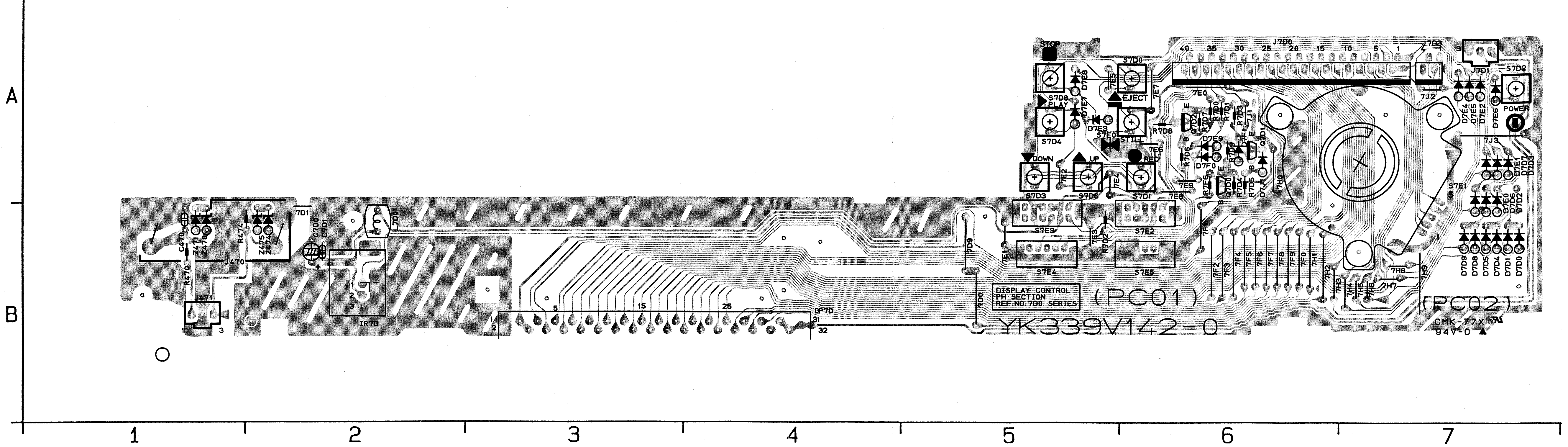
(DIODE:1S133)

DISPLAY CONTROL SCHEMATIC DIAGRAM (DC-1) PC03 VR742

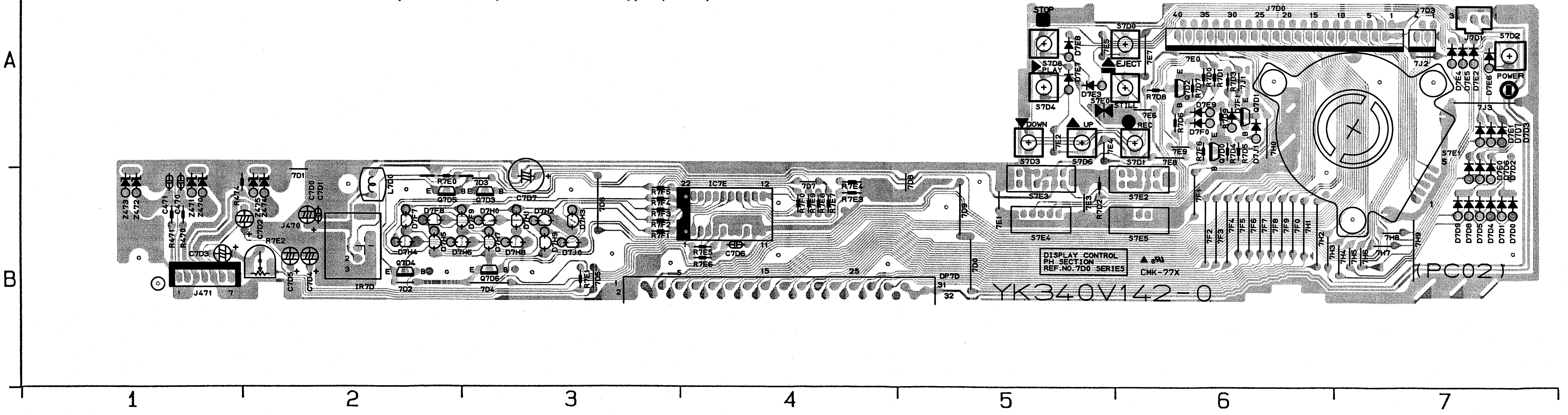

A
B
C
D
E
F
1
2
3
4
5
6
7
8
DP7E
11G·10G·9G·8G·7G
3G
2G
1G
STEREO VPS
DIGITAL I-II
L HIFI R
TIMER OTR
AI
PR
SLP
11G
10G
9G
8G
7G
6G
5G
4G
TO PS
J7E1
AC
AC
GND
TO DE-1
J7E0
KEY1
KEY2
KEY3
P16
P15
P14
P13
P12
P11
P10
P9
P8
P7
P6
P5
P4
P3
P2
P1
G1
G2
G3
G4
G5
G6
G7
G8
G9
G10
G11
NICAM
RC5
E+5V
NTSC
COLOR 2
COLOR 1
PAL60
NTSC 3.58
LED DRIVER
Q7E0
Q7E1
Q7E2
Q7E3
A933
LEVEL METER DRIVER IC
IC7F
BA6822S
COMPARATOR
PEAK HOLD LOGIC
1/N
OSC
INPUT INTERFACE
DRIVER
SWITCHER
√AMP
VREF
VCC
R7H7 2200
R7H8 2200
R7H9 2200
R7J0 2200
R7J1 150
R7J2 150
R7J3 150
R7J4 150
R7J5 150
R7H6 22K
C7E6 0.022
R7H5 10K
C7E5 10
R7H4 47K
C7E4 10 16V
R7H3 47K
R7H1 3300
R7H2 4700
LEVEL ADJ
C7E2 1 50V
C7E3 1 50V
R7H0 10 1/6W
C7E7 1000 6.3V
D7M5
D7M4
D7M3
D7M2
D7M1
D7M0
D7L9
D7N2
D7N1
D7N0
D7M9
D7M8
D7M7
D7M6
IR7E
PAS-C615
L7E0 1m
C7E0 100 16V
C7E1 0.022
E+5V
OUT
GND
HIST-COMP
LATES
DETECT&COMP
BPF
LIMITER AMP
HEAD AMP
PD
D7L5
D7L4
D7L3
D7L2
S7F0 EJECT
S7F1 REC
S7F2 POWER
S7F3 DOWN
S7F4 PLAY
S7F5 FF
S7F6 UP
S7F8 STOP
S7F9 REW
S7H0 STILL
D7L7
D7L8
D7K0
D7K1
D7K2
D7K3
D7K4
D7K5
D7K6
D7K7
D7K8
D7K9
D7L0
D7L1
D7L6
Q7E5
A1048
R7K1 15K
R7K6 100
R7K0 33K
D7N6
R7J8 47K
Q7E4
C2458
D7N3
D7N4
D7N5
R7K2 10K
Q7E6
C2458
R7K3 47K
R7K4 47K
R7K5 47K
R7J6 100
R7J7 100
R7J9 47K
J7E2
GND
E+5V
NTSC
COLOR 2
COLOR 1
NTSC3.58
PAL60
NICAM
METER (L)
GND
METER (R)
J7F0
S7H1 NICAM SW
OFF
AUTO
S7H2 COLOR
AUTO
PAL
NTSC
S7H3 NTSC MODE
3.58
4.43
PAL60
J7F1 TO FM-2 (J414)
METER (L)
GND
METER (R)
PC04
(DIODE:1SS133)

DISPLAY CONTROL P.C.B DRAWING PC01 PC02

"Inserted components are dependent on the set type" (VR642)


A
B
1
2
3
4
5
6
7
STOP
PLAY
EJECT
STILL
DOWN
UP
REC
POWER
J7D0
IR7D
J470
J471
DP7D
DISPLAY CONTROL
PH SECTION
REF.NO.7D0 SERIES
(PC01)
(PC02)
YK339V142-0
CMK-77X
84V-0

"Inserted components are dependent on the set type" (VR842)


A
B
1
2
3
4
5
6
7
STOP
PLAY
EJECT
STILL
DOWN
UP
REC
POWER
J7D0
IC7E
IR7D
J470
J471
DP7D
DISPLAY CONTROL
PH SECTION
REF.NO.7D0 SERIES
CMK-77X
(PC02)
YK340V142-0

VR642

CAPACITORS

C7D0	B2
C7D1	B2
C470	B1

DIODES

D7D0	B7
D7D1	B7
D7D2	A7
D7D3	A7
D7D4	B7
D7D5	B7
D7D6	A7
D7D7	A7
D7D8	B7
D7D9	B7
D7E0	A7
D7E1	A7
D7E2	A7
D7E3	A5
D7E4	A7
D7E5	A7
D7E6	A7
D7E7	A5
D7E8	A5
D7E9	A6
D7F0	A6
D7F1	A6

FL-DISPLAY

DP7D	B4

IR-RECEIVER

IR7D	B2

CONNECTORS

J7D0	A6
J7D1	A7
J7D3	A7
J470	B2
J471	B1

COIL

L7D0	B2

TRANSISTORS

Q7D0	A6
Q7D1	A6
Q7D2	A6

RESISTORS

R7D0	A6
R7D1	A6
R7D2	B5
R7D3	A6
R7D4	A6
R7D5	A6
R7D6	A6
R7D7	A6
R7D8	A6
R7D9	A6
R7F6	A6
R470	B1
R474	B1

SWITCHS

S7D0	A6
S7D1	A6
S7D2	A7
S7D3	A5
S7D4	A5
S7D6	A5
S7D8	A5
S7E0	A5
S7E1	A7
S7E2	B6
S7E3	B5
S7E4	B5
S7E5	B6

ZENERS

Z470	B1
Z471	B1
Z474	B2
Z475	B2

VR842

CAPACITORS

C7D0	B2
C7D1	B2
C7D2	B2
C7D3	B1
C7D4	B2
C7D5	B2
C7D6	B4
C7D7	B3
C470	B1
C471	B1

DIODES

D7D0	B7
D7D1	B7
D7D2	A7
D7D3	A7
D7D4	B7
D7D5	B7
D7D6	A7
D7D7	A7
D7D8	B7
D7D9	B7
D7E0	A7
D7E1	A7
D7E2	A7
D7E3	A5
D7E4	A7
D7E5	A7
D7E6	A7
D7E7	A5
D7E8	A5
D7E9	A6
D7F0	A6
D7F1	A6
D7F7	B2
D7F8	B2
D7F9	B3
D7H0	B3
D7H1	B3
D7H2	B3
D7H3	B3
D7H4	B2
D7H5	B2
D7H6	B2
D7H7	B3
D7H8	B3
D7H9	B3
D7J0	B3
D7J1	A6

FL-DISPLAY

DP7D	B4

IC

IC7E	B4

IR-RECEIVER

IR7D	B2

CONNECTORS

J7D0	A6
J7D1	A7
J7D3	A7
J470	B2
J471	B1

COIL

L7D0	B2

TRANSISTORS

Q7D0	A6
Q7D1	A6
Q7D2	A6
Q7D3	B3
Q7D4	B2
Q7D5	B2
Q7D6	B3

RESISTORS

R7D0	A6
R7D1	A6
R7D2	B5
R7D3	A6
R7D4	A6
R7D5	A6
R7D6	A6
R7D7	A6
R7D8	A6
R7D9	A6
R7E0	B2
R7E1	B3
R7E2	B2
R7E3	B4
R7E4	B4
R7E5	B4
R7E6	B4
R7E7	B4
R7E8	B4
R7E9	B4
R7F0	B4
R7F1	B3
R7F2	B3
R7F3	B3
R7F4	B3
R7F5	B3
R7F6	A6
R470	B1
R471	B1
R474	B1

SWITCHES

S7D0	A6
S7D1	A6
S7D2	A7
S7D3	A5
S7D4	A5
S7D6	A5
S7D8	A5
S7E0	A5
S7E1	A7
S7E2	B6
S7E3	B5
S7E4	B5
S7E5	B6

ZENERS

Z470	B1
Z471	B1
Z472	B1
Z473	B1
Z474	B2
Z475	B2

CAPACITORS	
C7D0	D6
C7D1	D6
C7D2	D8
C7D3	D8
C7D4	C8
C7D5	C8
C7D6	B8
C7D7	D7

DIODES	
D7D0	F3
D7D1	F3
D7D2	F3
D7D3	F3
D7D4	F3
D7D5	F3
D7D6	F4
D7D7	F4
D7D8	F4
D7D9	F4
D7E0	F4
D7E1	F4
D7E2	E4
D7E3	E4
D7E4	E4
D7E5	E4
D7E6	F4
D7E7	F4
D7E8	F4
D7E9	F7
D7F0	F7
D7F1	F7
D7F7	C6
D7F8	C6
D7F9	C6
D7H0	C6
D7H1	C6
D7H2	C6
D7H3	B6
D7H4	C6
D7H5	C6
D7H6	C6
D7H7	C6
D7H8	C6
D7H9	C6
D7J0	B6
D7J1	E7

FL-DISPLAY	
DP7D	A2

IC	
IC7E	B8

IR-RECEIVER	
IR7D	D7

CONNECTORS	
J7D0	C1
J7D1	A6
J7D2	F1

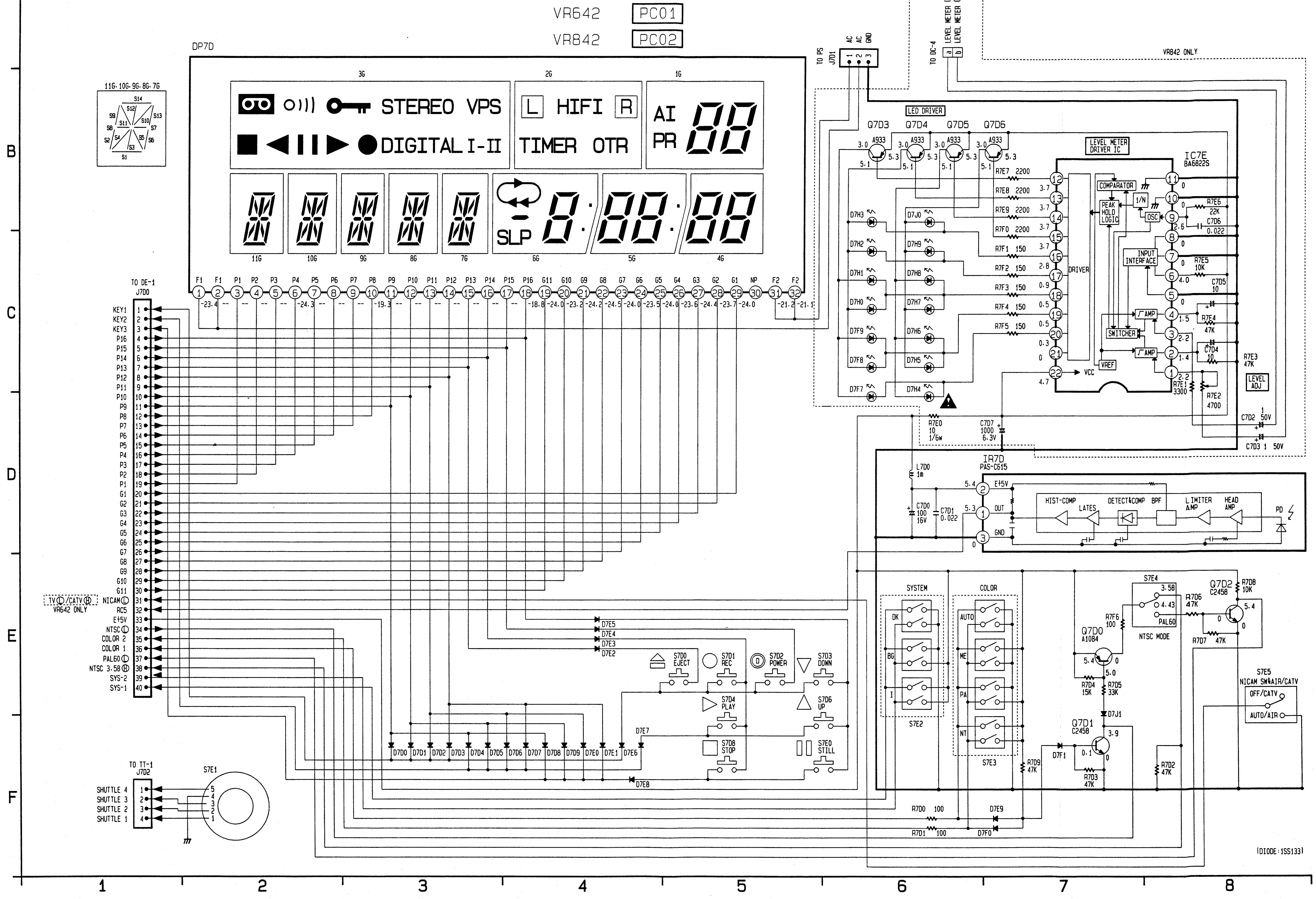
COIL	
L7D0	D6

TRANSISTORS	
Q7D0	E7
Q7D1	F7
Q7D2	E8
Q7D3	B6
Q7D4	B6
Q7D5	B6
Q7D6	B7

RESISTORS	
R7D0	F6
R7D1	F6
R7D2	F8
R7D3	F7
R7D4	E7
R7D5	E7
R7D6	E8
R7D7	E8
R7D8	E8
R7D9	F7
R7E0	D6
R7E1	C8
R7E2	D8
R7E3	C8
R7E4	C8
R7E5	C8
R7E6	B8
R7E7	B7
R7E8	B7
R7E9	B7
R7F0	C7
R7F1	C7
R7F2	C7
R7F3	C7
R7F4	C7
R7F5	C7
R7F6	E7

SWITCHES	
S7D0	E5
S7D1	E5
S7D2	E5
S7D3	E6
S7D4	E5
S7D6	E6
S7D8	F5
S7E0	F5
S7E1	F2
S7E2	F6
S7E3	F7
S7E4	E8
S7E5	E8

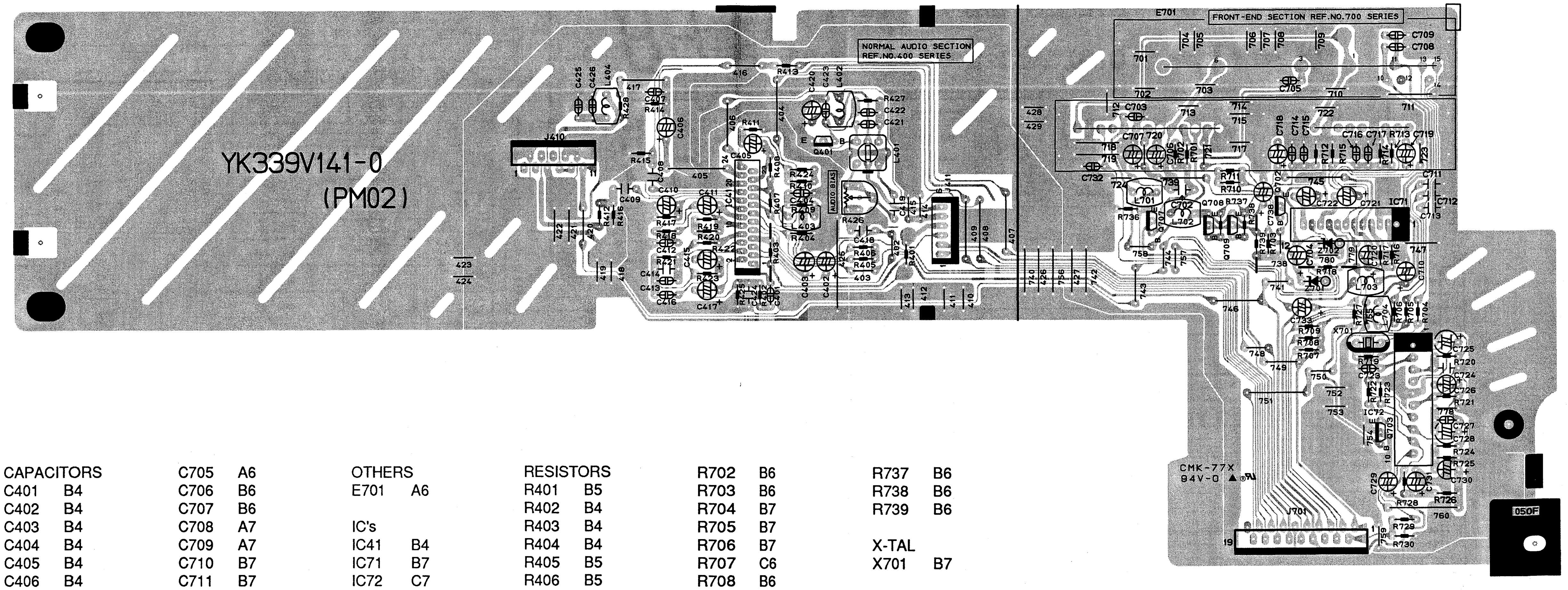
DISPLAY CONTROL SCHEMATIC DIAGRAM (DC-2)


VR642 PC01
VR842 PC02
DP7D
11G·10G·9G·8G·7G
STEREO VPS
DIGITAL I-II
L HIFI R
TIMER OTR
AI PR
SLP
TO DE-1 J7D0
KEY1 KEY2 KEY3 P16 P15 P14 P13 P12 P11 P10 P9 P8 P7 P6 P5 P4 P3 P2 P1 G1 G2 G3 G4 G5 G6 G7 G8 G9 G10 G11
NICAM Ⓛ RC5 E+5V NTSC Ⓛ COLOR 2 COLOR 1 PAL60 Ⓛ NTSC 3.58 Ⓗ SYS-2 SYS-1
TV Ⓛ/CATV Ⓗ VR642 ONLY
TO PS J7D1 AC AC GND
TO DC-4 LEVEL METER (L) LEVEL METER (R)
VR842 ONLY
LED DRIVER
Q7D3 Q7D4 Q7D5 Q7D6 A933
LEVEL METER DRIVER IC
IC7E BA6822S
COMPARATOR PEAK HOLD LOGIC OSC INPUT INTERFACE SWITCHER VREF DRIVER VCC
R7E7 2200 R7E8 2200 R7E9 2200 R7F0 2200 R7F1 150 R7F2 150 R7F3 150 R7F4 150 R7F5 150
R7E6 22K C7D6 0.022 R7E5 10K C7D5 10 R7E4 47K C7D4 10 R7E3 47K R7E1 3300 R7E2 4700
LEVEL ADJ
C7D2 1 50V C7D3 1 50V
R7E0 10 1/6W C7D7 1000 6.3V
IR7D PAS-C615
HIST-COMP LATES DETECT&COMP BPF LIMITER AMP HEAD AMP PD
E+5V OUT GND
L7D0 1m C7D0 100 16V C7D1 0.022
SYSTEM DK BG I S7E2
COLOR AUTO ME PA NT S7E3
S7E4 3.58 4.43 PAL60 NTSC MODE
Q7D2 C2458 R7D8 10K R7D6 47K R7D7 47K
Q7D0 A1084 R7F6 100 R7D4 15K R7D5 33K D7J1
Q7D1 C2458 D7F1 R7D9 47K R7D3 47K R7D2 47K
S7E5 NICAM SW&AIR/CATV OFF/CATV AUTO/AIR
S7D0 EJECT S7D1 REC S7D2 POWER S7D3 DOWN S7D4 PLAY S7D6 UP S7D8 STOP S7E0 STILL
D7E5 D7E4 D7E3 D7E2 D7E7 D7E8
D7D0 D7D1 D7D2 D7D3 D7D4 D7D5 D7D6 D7D7 D7D8 D7D9 D7E0 D7E1 D7E6
TO TT-1 J7D2 SHUTTLE 4 SHUTTLE 3 SHUTTLE 2 SHUTTLE 1 S7E1
R7D0 100 R7D1 100 D7E9 D7F0
A B C D E F
1 2 3 4 5 6 7 8

(DIODE: 1SS133)

UHF/VHF TUNER/TV DEMODULATOR/NORMAL AUDIO P.C.B DRAWING PM02 (VR642)

"Inserted components are dependent on the set type"


YK339V141-0
(PM02)
NORMAL AUDIO SECTION
REF.NO.400 SERIES
FRONT-END SECTION REF.NO.700 SERIES
E701
J410
J701
IC71
IC72
CMK-77X
94V-0
050F
A
B
C
D
E
1
2
3
4
5
6
7

CAPACITORS	
C401	B4
C402	B4
C403	B4
C404	B4
C405	B4
C406	B4
C407	A4
C408	B4
C409	B4
C410	B4
C411	B4
C412	B4
C413	B4
C414	B4
C415	B4
C416	B4
C417	B4
C418	B5
C419	B5
C420	A4
C421	B5
C422	B5
C423	A4
C424	B4
C425	A3
C426	A3
C702	B6
C703	B6
C704	B6
C705	A6
C706	B6
C707	B6
C708	A7
C709	A7
C710	B7
C711	B7
C712	B7
C713	B7
C714	B6
C715	B6
C716	B7
C717	B7
C718	B6
C719	B7
C720	B7
C721	B7
C722	B6
C723	C7
C724	C7
C725	C7
C726	C7
C727	C7
C728	C7
C729	C7
C730	C7
C731	C7
C732	B6
C733	B6
C738	B6

OTHERS	
E701	A6

IC's	
IC41	B4
IC71	B7
IC72	C7

CONNECTORS	
J410	B3
J411	B5
J701	C6

COILS	
L401	B5
L402	A4
L403	B4
L404	A3
L701	B6
L702	B6
L703	B7
L704	B7

TRANSISTORS	
Q401	B4
Q702	B6
Q703	C7
Q707	B6
Q708	B6
Q709	B6

RESISTORS	
R401	B5
R402	B4
R403	B4
R404	B4
R405	B5
R406	B5
R407	B4
R408	B4
R409	B4
R410	B4
R411	B4
R412	B3
R413	A4
R414	A4
R415	B4
R416	B4
R417	B4
R418	B4
R419	B4
R420	B4
R421	B4
R422	B4
R423	B4
R424	B4
R425	B4
R426	B5
R427	A5
R428	B4
R701	B6
R702	B6
R703	B6
R704	B7
R705	B7
R706	B7
R707	C6
R708	B6
R709	B6
R710	B6
R711	B6
R712	B6
R713	B7
R714	B7
R715	B7
R716	B7
R717	B7
R718	B6
R719	C7
R720	C7
R721	C7
R722	C7
R723	C7
R724	C7
R725	C7
R726	C7
R727	B7
R728	C7
R729	C7
R730	C7
R736	B6
R737	B6
R738	B6
R739	B6

X-TAL	
X701	B7

ZENERS	
Z701	B6
Z702	B6

UHF/VHF TUNER/TV DEMODULATOR SCHEMATIC DIAGRAM (FE-1) PM02

CAPACITORS	
C702	C3
C703	C1
C704	C4
C705	C5
C706	C5
C707	C5
C708	C5
C709	C6
C710	C6
C711	C6
C712	C6
C713	C6
C714	C2
C715	C2
C716	C4
C717	C4
C718	D3
C719	D3
C720	D3
C721	D4
C722	D4
C723	E5
C724	E5
C725	E5
C726	D5
C727	E5
C728	E6
C729	E6
C730	D7
C731	E7
C732	C1
C733	D7
C738	C3

TUNER IF PACK	
E701	A1

IC's	
IC71	D2
IC72	D4

CONNECTOR	
J701	B8

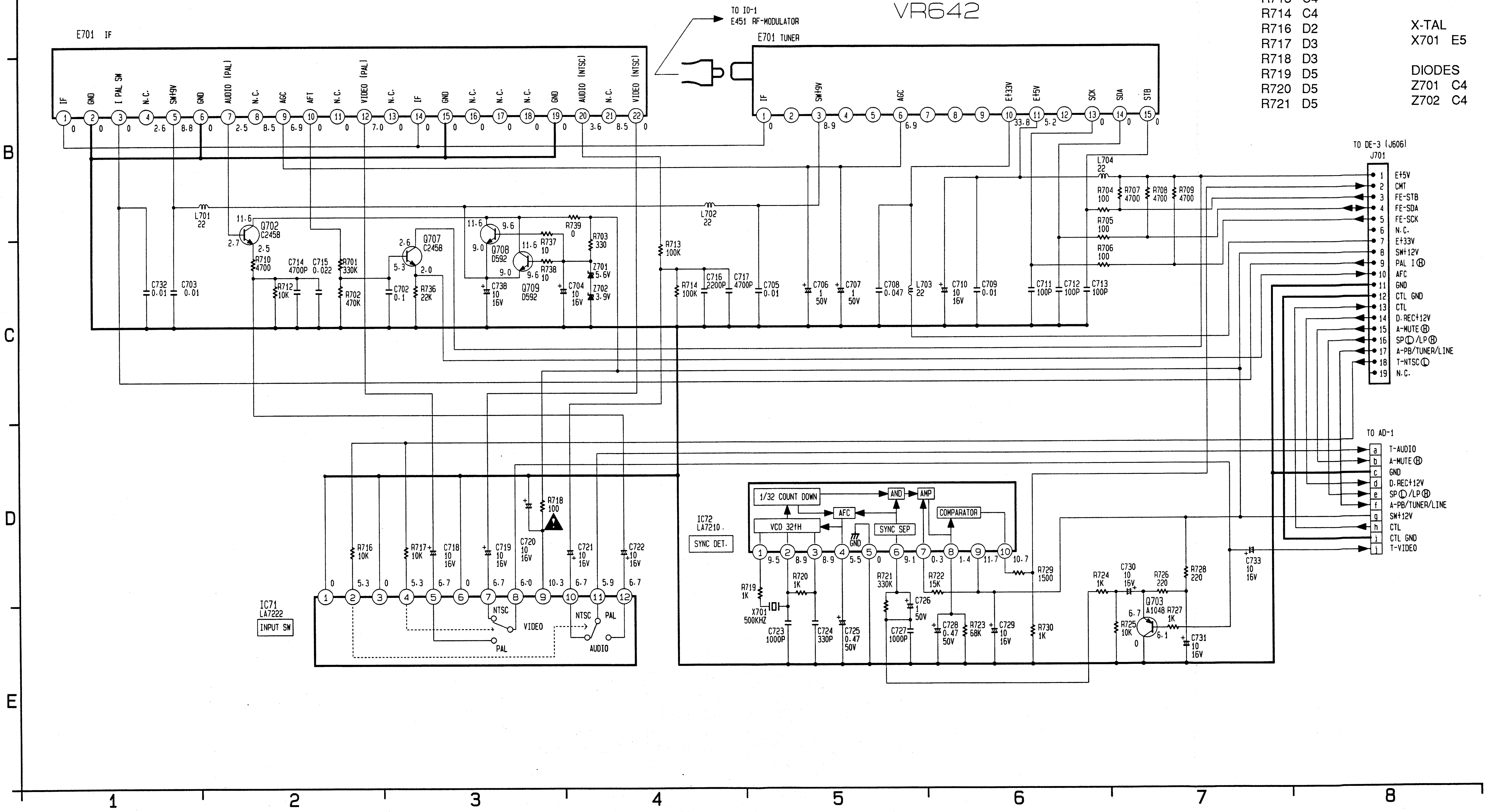
COILS	
L701	B2
L702	B4
L703	C5
L704	B6

TRANSISTORS	
Q702	B2
Q703	D7
Q707	B3
Q708	C3
Q709	C3

RESISTORS	
R701	C2
R702	C2
R703	B4
R704	B6
R705	B6
R706	C6
R707	B7
R708	B7
R709	B7
R710	C2
R712	C2
R713	C4
R714	C4
R716	D2
R717	D3
R718	D3
R719	D5
R720	D5
R721	D5
R722	D6
R723	E6
R724	D6
R725	E7
R726	D7
R727	E7
R728	D7
R729	D6
R730	E6
R736	C3
R737	C3
R738	C3
R739	B4

X-TAL	
X701	E5

DIODES	
Z701	C4
Z702	C4


VR642
E701 IF
IF
GND
I PAL SW
N.C.
SW+9V
GND
AUDIO (PAL)
AGC
AFT
VIDEO (PAL)
AUDIO (NTSC)
VIDEO (NTSC)
TO IO-1
E451 RF-MODULATOR
E701 TUNER
E+33V
E+5V
SCK
SDA
STB
L701 22
Q702 C2458
Q707 C2458
Q708 D592
Q709 D592
L702 22
L704 22
TO DE-3 (J606)
J701
1 E+5V
2 CMT
3 FE-STB
4 FE-SDA
5 FE-SCK
6 N.C.
7 E+33V
8 SW+12V
9 PAL I
10 AFC
11 GND
12 CTL GND
13 CTL
14 D.REC+12V
15 A-MUTE
16 SP/LP
17 A-PB/TUNER/LINE
18 T-NTSC
19 N.C.
TO AD-1
a T-AUDIO
b A-MUTE
c GND
d D.REC+12V
e SP/LP
f A-PB/TUNER/LINE
g SW+12V
h CTL
i CTL GND
j T-VIDEO
IC71 LA7222
INPUT SW
NTSC
VIDEO
PAL
AUDIO
IC72 LA7210
SYNC DET.
1/32 COUNT DOWN
AND
AMP
AFC
COMPARATOR
VCO 32fH
SYNC SEP
X701 500KHZ
Q703 A1048
A
B
C
D
E
1
2
3
4
5
6
7
8

NORMAL AUDIO SCHEMATIC DIAGRAM (AD-1) PM02

⇦ MAIN SIGNAL PATH IN REC MODE

⬅ MAIN SIGNAL PATH IN PB MODE

VR642

CAPACITORS	
C401	D3
C402	D4
C403	E4
C404	E5
C405	D5
C406	C5
C407	B5
C408	C5
C409	C4
C410	B4
C411	C4
C412	B4
C413	B4
C414	B4
C415	C3
C416	B3
C417	B3
C418	D3
C419	D2
C420	D2
C421	C2
C422	C1
C423	C1
C424	B3
C425	B5
C426	B5

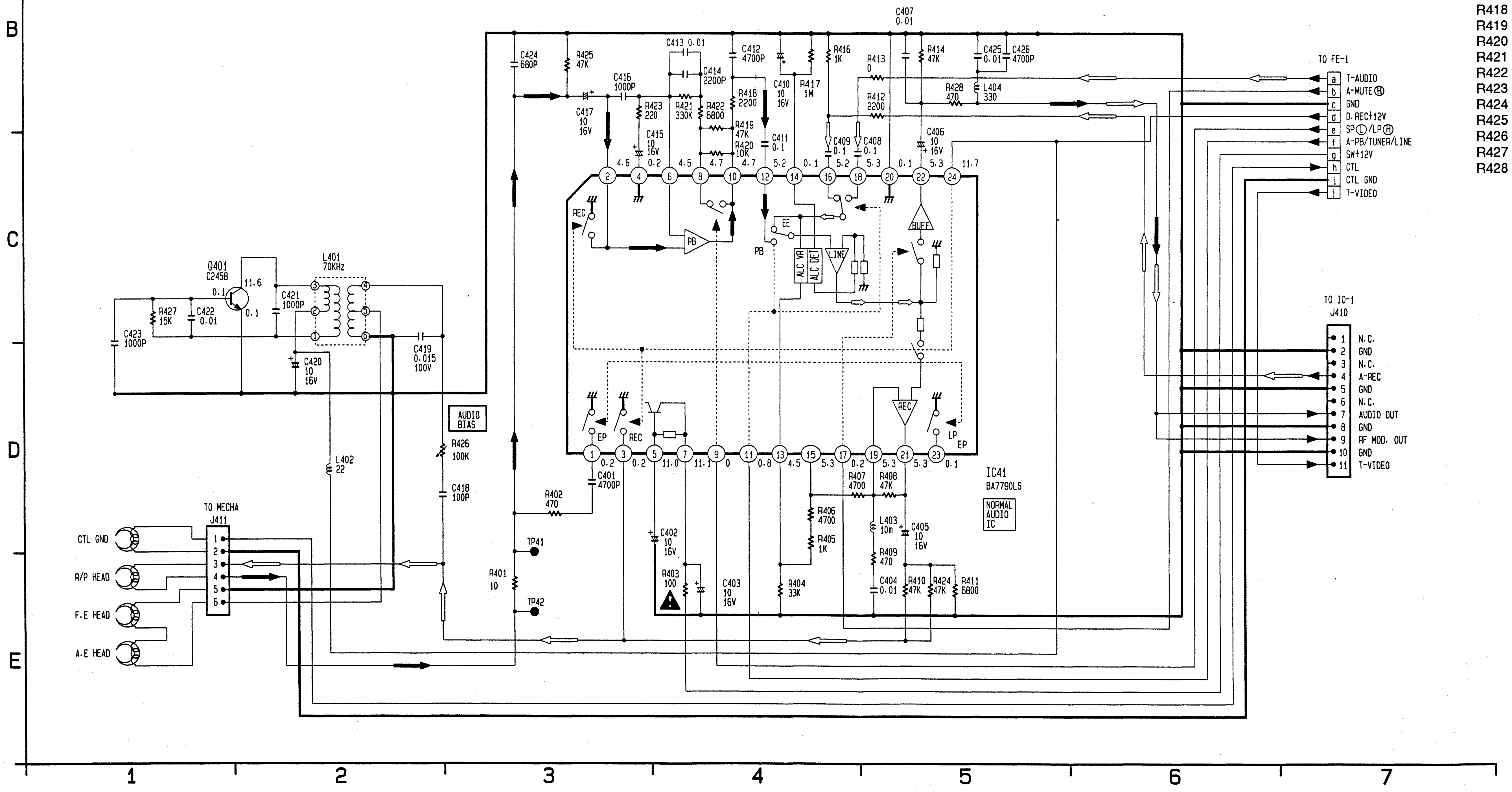
IC	
IC41	D5

CONNECTORS	
J410	C7
J411	D1

COILS	
L401	C2
L402	D2
L403	D5
L404	B5

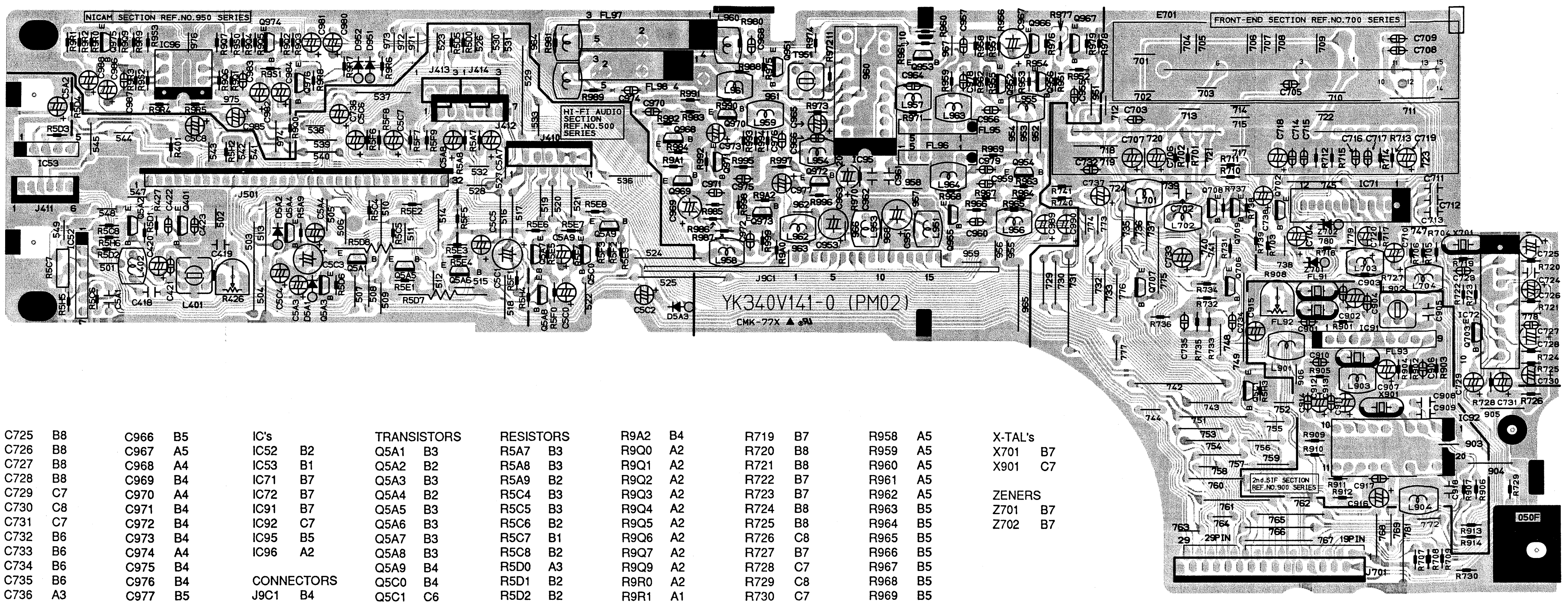
TRANSISTOR	
Q401	C1

RESISTORS	
R401	E3
R402	D3
R403	E4
R404	E4
R405	D4
R406	D4
R407	D5
R408	D5
R409	D5
R410	E5
R411	E5
R412	B5
R413	B5
R414	B5
R416	B4
R417	B4
R418	B4
R419	B4
R420	C4
R421	B4
R422	B4
R423	B3
R424	E5
R425	B3
R426	D3
R427	C1
R428	B5


A
B
C
D
E
1
2
3
4
5
6
7
C424 680P
R425 47K
C416 1000P
C417 10 16V
C413 0.01
C414 2200P
R423 220
C415 10 16V
R421 330K
R422 6800
C412 4700P
R418 2200
R419 47K
R420 10K
C410 10 16V
R417 1M
C411 0.1
R416 1K
R413 0
R412 2200
C409 0.1
C408 0.1
C407 0.01
R414 47K
C406 10 16V
R428 470
L404 330
C425 0.01
C426 4700P
4.6
0.2
4.6
4.7
4.7
5.2
0.1
5.2
5.3
0.1
5.3
11.7
REC
PB
EE
PB
ALC VR
ALC DET
LINE
BUFF
TO FE-1
a T-AUDIO
b A-MUTE Ⓗ
c GND
d D.REC+12V
e SPⓁ/LPⒽ
f A-PB/TUNER/LINE
g SW+12V
h CTL
i CTL GND
j T-VIDEO
Q401 C2458
0.1
11.6
0.1
R427 15K
C422 0.01
C423 1000P
C421 1000P
L401 70KHz
C420 10 16V
C419 0.015 100V
AUDIO BIAS
R426 100K
C418 100P
L402 22
TO MECHA J411
CTL GND
R/P HEAD
F.E HEAD
A.E HEAD
EP
REC
REC
LP
EP
0.2
0.2
11.0
11.1
0
0.8
4.5
5.3
0.2
5.3
5.3
0.1
C401 4700P
R402 470
TP41
R401 10
TP42
C402 10 16V
R403 100
C403 10 16V
R404 33K
R406 4700
R405 1K
R407 4700
R408 47K
L403 10m
C405 10 16V
R409 470
C404 0.01
R410 47K
R424 47K
R411 6800
IC41 BA7790LS
NORMAL AUDIO IC
TO IO-1 J410
1 N.C.
2 GND
3 N.C.
4 A-REC
5 GND
6 N.C.
7 AUDIO OUT
8 GND
9 RF MOD. OUT
10 GND
11 T-VIDEO

UHF/VHF TUNER/TV DEMODULATOR/2nd. SIF/2 CARRIER ST/HI-FI AUDIO SUB/NICAM SIF P.C.B DRAWING PM02 (VR742/VR842)

"Inserted components are dependent on the set type"


NICAM SECTION REF.NO.950 SERIES
HI-FI AUDIO SECTION REF.NO.500 SERIES
FRONT-END SECTION REF.NO.700 SERIES
2nd.SIF SECTION REF.NO.900 SERIES
YK340V141-0 (PM02)
CMK-72X
E701
IC53
IC96
IC95
IC71
IC72
IC91
IC92
J501
J411
J410
J9C1
J701
FL97
FL98
FL96
FL95
FL91
FL92
FL93
T951
29PIN
19PIN
050F
A
B
C
D
E
1
2
3
4
5
6
7
8

CAPACITORS	
C5A1	B2
C5A2	A1
C5A3	B2
C5A4	B3
C5A7	B3
C5A8	B3
C5A9	B4
C5C0	B4
C5C1	B3
C5C2	B4
C5C3	B3
C5C4	B2
C5C5	B3
C5C6	A3
C5C7	A3
C5C8	B2
C418	B2
C419	B2
C420	B2
C421	B2
C422	B2
C423	B2
C702	B6
C703	A6
C704	B7
C705	A7
C706	B6
C707	B6
C708	A7
C709	A7
C710	B7
C711	B7
C712	B7
C713	B7
C714	A7
C715	A7
C716	B7
C717	B7
C718	A7
C719	B7
C720	B7
C723	B7
C724	B8
C725	B8
C726	B8
C727	B8
C728	B8
C729	C7
C730	C8
C731	C7
C732	B6
C733	B6
C734	B6
C735	B6
C736	A3
C737	B6
C738	B6
C901	B7
C902	B7
C903	B7
C904	B7
C905	B7
C906	B7
C907	C7
C908	C7
C909	C7
C910	B7
C911	C7
C912	C7
C913	C7
C914	C7
C915	B6
C916	C7
C917	C7
C918	C7
C951	B5
C953	B5
C955	A6
C956	A5
C957	A5
C959	B5
C960	B5
C961	B5
C962	B5
C963	B5
C964	A5
C965	A5
C966	B5
C967	A5
C968	A4
C969	B4
C970	A4
C971	B4
C972	B4
C973	B4
C974	A4
C975	B4
C976	B4
C977	B5
C978	A5
C979	B5
C980	A3
C981	A3
C982	A2
C983	A2
C984	A2
C985	A2
C986	A2
C987	A2
C988	A2
C989	B6
C990	B6

DIODES	
D5A1	B2
D5A2	B2
D5A3	B4
D951	A3
D952	A3

OTHERS	
E701	A6
FL91	B7
FL92	B7
FL93	B7
FL95	A5
FL96	B5
FL97	A4
FL98	A4
T951	A5

IC's	
IC52	B2
IC53	B1
IC71	B7
IC72	B7
IC91	B7
IC92	C7
IC95	B5
IC96	A2

CONNECTORS	
J9C1	B4
J410	B3
J411	B1
J412	A3
J413	A3
J414	A3
J501	B2
J701	C7

COILS	
L401	B2
L402	B2
L701	B6
L702	B6
L703	B7
L704	B7
L901	B7
L902	B7
L903	C7
L904	C7
L951	B5
L953	B5
L954	B5
L955	A5
L956	B5
L957	A5
L958	B4
L959	A4
L960	A4
L961	A4
L962	B5
L963	A5
L964	B5

TRANSISTORS	
Q5A1	B3
Q5A2	B2
Q5A3	B3
Q5A4	B2
Q5A5	B3
Q5A6	B3
Q5A7	B3
Q5A8	B3
Q5A9	B4
Q5C0	B4
Q5C1	C6
Q401	B2
Q702	B7
Q703	B7
Q706	B6
Q707	B6
Q708	B6
Q709	B6
Q951	A4
Q952	A5
Q953	A5
Q954	B5
Q955	B5
Q956	A6
Q966	A6
Q967	A6
Q968	A4
Q969	B4
Q970	A4
Q971	B4
Q972	B5
Q973	B4
Q974	A2
Q975	A2
Q976	A6
Q976	A2
Q996	A6

RESISTORS	
R5A7	B3
R5A8	B3
R5A9	B2
R5C4	B3
R5C5	B3
R5C6	B2
R5C7	B1
R5C8	B2
R5D0	A3
R5D1	B2
R5D2	B2
R5D3	A1
R5D4	A2
R5D5	A3
R5D6	B3
R5D7	B3
R5D8	B3
R5E1	B3
R5E2	B3
R5E3	B3
R5E4	B3
R5E5	B4
R5E6	B3
R5E7	B4
R5E8	B4
R5E9	B4
R5F0	B4
R5F1	B3
R5F2	B4
R5F3	B4
R5F4	B4
R5F5	B3
R5F6	B3
R5F7	B3
R5F8	A3
R5F9	B3
R5H2	B2
R5H3	C6
R5H4	B3
R5H5	B1
R5H6	B2
R9A0	B4
R9A1	B4
R9A2	B4
R9Q0	A2
R9Q1	A2
R9Q2	A2
R9Q3	A2
R9Q4	A2
R9Q5	A2
R9Q6	A2
R9Q7	A2
R9Q9	A2
R9R0	A2
R9R1	A1
R9R2	A2
R9R3	A2
R9R4	A2
R9R5	A2
R9R6	A3
R9R7	A3
R9R8	A3
R9R9	A2
R9S0	A2
R9S1	A2
R9S2	A2
R9S3	A2
R401	B2
R426	B2
R427	B2
R701	B6
R702	B6
R703	B7
R704	B7
R705	B7
R706	B7
R707	C7
R708	C7
R709	C7
R710	B6
R711	B6
R712	B7
R713	B7
R714	B7
R715	B7
R717	B7
R718	B7
R719	B7
R720	B8
R721	B8
R722	B7
R723	B7
R724	B8
R725	B8
R726	C8
R727	B7
R728	C7
R729	C8
R730	C7
R731	B6
R732	B6
R733	B6
R734	B6
R735	B6
R736	B6
R737	B6
R738	B6
R739	B6
R740	B6
R741	B6
R901	B7
R902	B7
R903	B7
R904	B7
R905	B7
R906	C7
R907	C7
R908	B7
R909	C7
R910	C7
R911	C7
R912	C7
R913	C7
R914	C7
R951	A6
R952	A6
R953	A5
R954	A6
R955	A5
R956	A5
R957	A5
R958	A5
R959	A5
R960	A5
R961	A5
R962	A5
R963	B5
R964	B5
R965	B5
R966	B5
R967	B5
R968	B5
R969	B5
R970	B5
R971	A5
R972	A5
R973	A5
R974	A5
R975	A4
R976	A6
R977	A6
R978	A6
R979	A6
R980	A4
R981	A3
R982	A4
R983	A4
R984	B4
R985	B4
R986	B4
R987	B4
R988	A4
R989	A4
R990	A4
R991	A4
R992	B4
R993	B4
R994	B4
R995	B4
R996	B5
R997	B4
R998	B4
R999	B4

X-TAL's	
X701	B7
X901	C7

ZENERS	
Z701	B7
Z702	B7

UHF/VHF TUNER/TV DEMODULATOR SCHEMATIC DIAGRAM (FE-2) PM02

CAPACITORS	
C702	C3
C703	C3
C704	C4
C705	C5
C706	C6
C707	C6
C708	C6
C709	C6
C710	C6
C711	C7
C712	C7
C713	C7
C714	C2
C715	C2
C716	C5
C718	E3
C719	E3
C720	E3
C723	E5
C724	E5
C725	E5
C726	E5
C727	E5
C728	E6
C729	E6
C730	E7
C731	E7
C732	C1
C733	D7
C734	D2
C735	E2
C736	D8
C737	D7
C738	C3
C739	D2

TUNER IF PACK	
E701	B1

IC's	
IC71	E2
IC72	D4

VR742
VR842

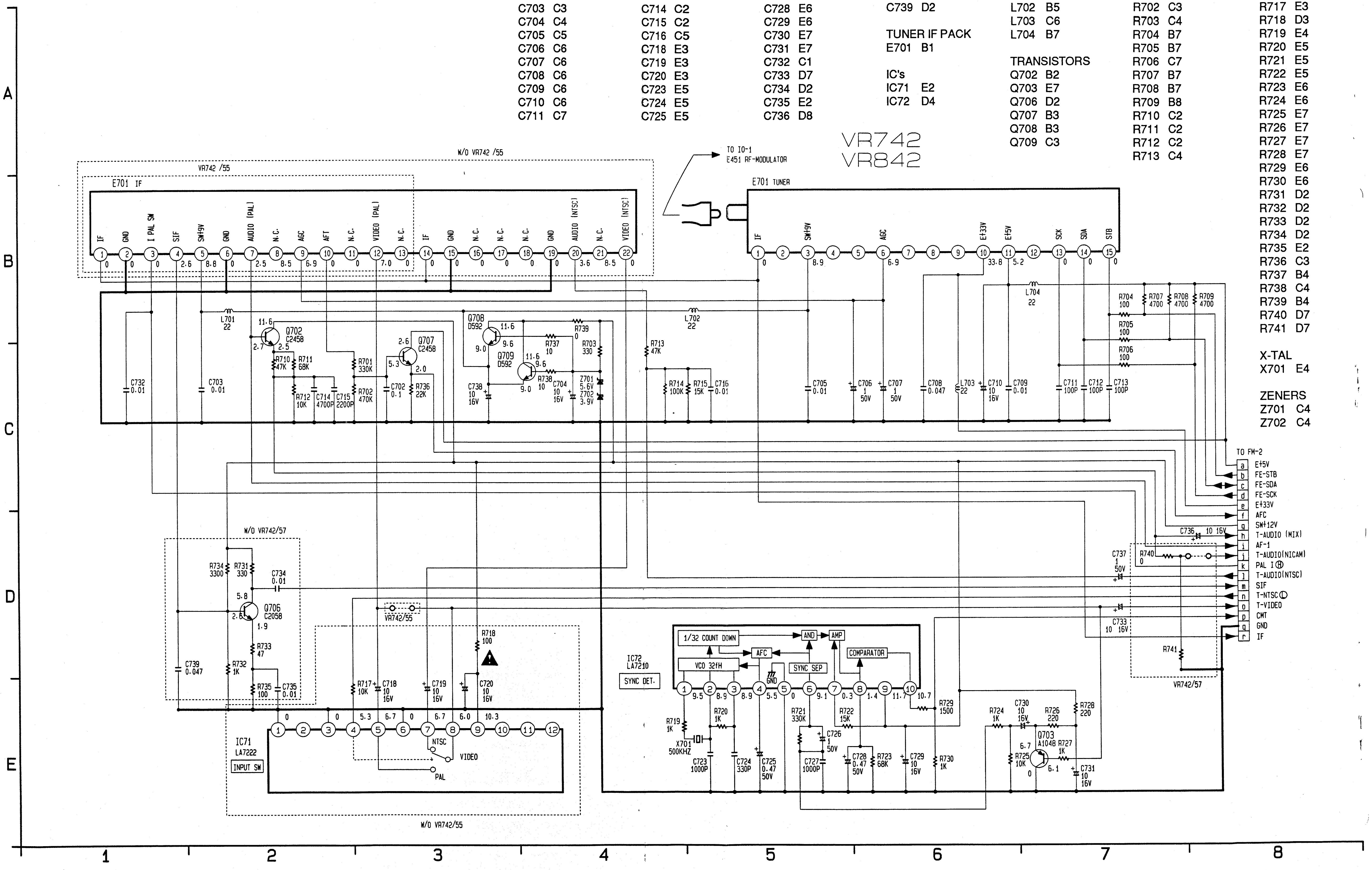
COILS	
L701	B2
L702	B5
L703	C6
L704	B7

TRANSISTORS	
Q702	B2
Q703	E7
Q706	D2
Q707	B3
Q708	B3
Q709	C3

RESISTORS	
R701	C3
R702	C3
R703	C4
R704	B7
R705	B7
R706	C7
R707	B7
R708	B7
R709	B8
R710	C2
R711	C2
R712	C2
R713	C4
R714	C4
R715	C5
R717	E3
R718	D3
R719	E4
R720	E5
R721	E5
R722	E5
R723	E6
R724	E6
R725	E7
R726	E7
R727	E7
R728	E7
R729	E6
R730	E6
R731	D2
R732	D2
R733	D2
R734	D2
R735	E2
R736	C3
R737	B4
R738	C4
R739	B4
R740	D7
R741	D7

X-TAL	
X701	E4

ZENERS	
Z701	C4
Z702	C4


A
B
C
D
E
1
2
3
4
5
6
7
8
W/O VR742 /55
VR742 /55
E701 IF
IF
GND
I PAL SW
SIF
SW+9V
GND
AUDIO (PAL)
N.C.
AGC
AFT
N.C.
VIDEO (PAL)
N.C.
IF
GND
N.C.
N.C.
N.C.
GND
AUDIO (NTSC)
N.C.
VIDEO (NTSC)
TO IO-1
E451 RF-MODULATOR
E701 TUNER
IF
SW+9V
AGC
E+33V
E+5V
SCK
SDA
STB
L701 22
Q702 C2458
R710 47K
R711 68K
R712 10K
C714 4700P
C715 2200P
R701 330K
R702 470K
C702 0.1
Q707 C2458
R736 22K
Q708 D592
Q709 D592
R737 10
R738 10
R739 0
R703 330
C738 10 16V
C704 10 16V
Z701 5.6V
Z702 3.9V
C732 0.01
C703 0.01
L702 22
R713 47K
R714 100K
R715 15K
C716 0.01
C705 0.01
C706 1 50V
C707 1 50V
C708 0.047
L703 22
C710 10 16V
C709 0.01
L704 22
R704 100
R705 100
R706 100
R707 4700
R708 4700
R709 4700
C711 100P
C712 100P
C713 100P
TO FM-2
a E+5V
b FE-STB
c FE-SDA
d FE-SCK
e E+33V
f AFC
g SW+12V
h T-AUDIO (MIX)
i AF-1
j T-AUDIO(NICAM)
k PAL I
l T-AUDIO(NTSC)
m SIF
n T-NTSC
o T-VIDEO
p CMT
q GND
r IF
C736 10 16V
C737 1 50V
R740 0
C733 10 16V
R741
VR742/57
W/O VR742/57
R734 3300
R731 330
C734 0.01
Q706 C2058
R733 47
C739 0.047
R732 1K
R735 100
C735 0.01
VR742/55
R718 100
R717 10K
C718 10 16V
C719 10 16V
C720 10 16V
IC71 LA7222
INPUT SW
NTSC
VIDEO
PAL
W/O VR742/55
IC72 LA7210
SYNC DET.
1/32 COUNT DOWN
AND
AMP
AFC
COMPARATOR
VCO 32fH
SYNC SEP
GND
R719 1K
X701 500KHZ
C723 1000P
R720 1K
C724 330P
C725 0.47 50V
R721 330K
C726 1 50V
C727 1000P
R722 15K
C728 0.47 50V
R723 68K
C729 10 16V
R729 1500
R730 1K
R724 1K
C730 10 16V
R726 220
R728 220
Q703 A1048
R727 1K
R725 10K
C731 10 16V

2nd. SIF / 2CARRIER ST SCHEMATIC DIAGRAM (FE-3) PM02

VR742/55
VR842

CAPACITORS	
C901	D1
C902	D2
C903	D2
C904	D2
C905	D2
C906	D3
C907	C3
C908	D3
C909	D4
C910	D4
C911	C4
C912	C4
C913	D4
C914	D5
C915	D5
C916	B4
C917	B4
C918	B4

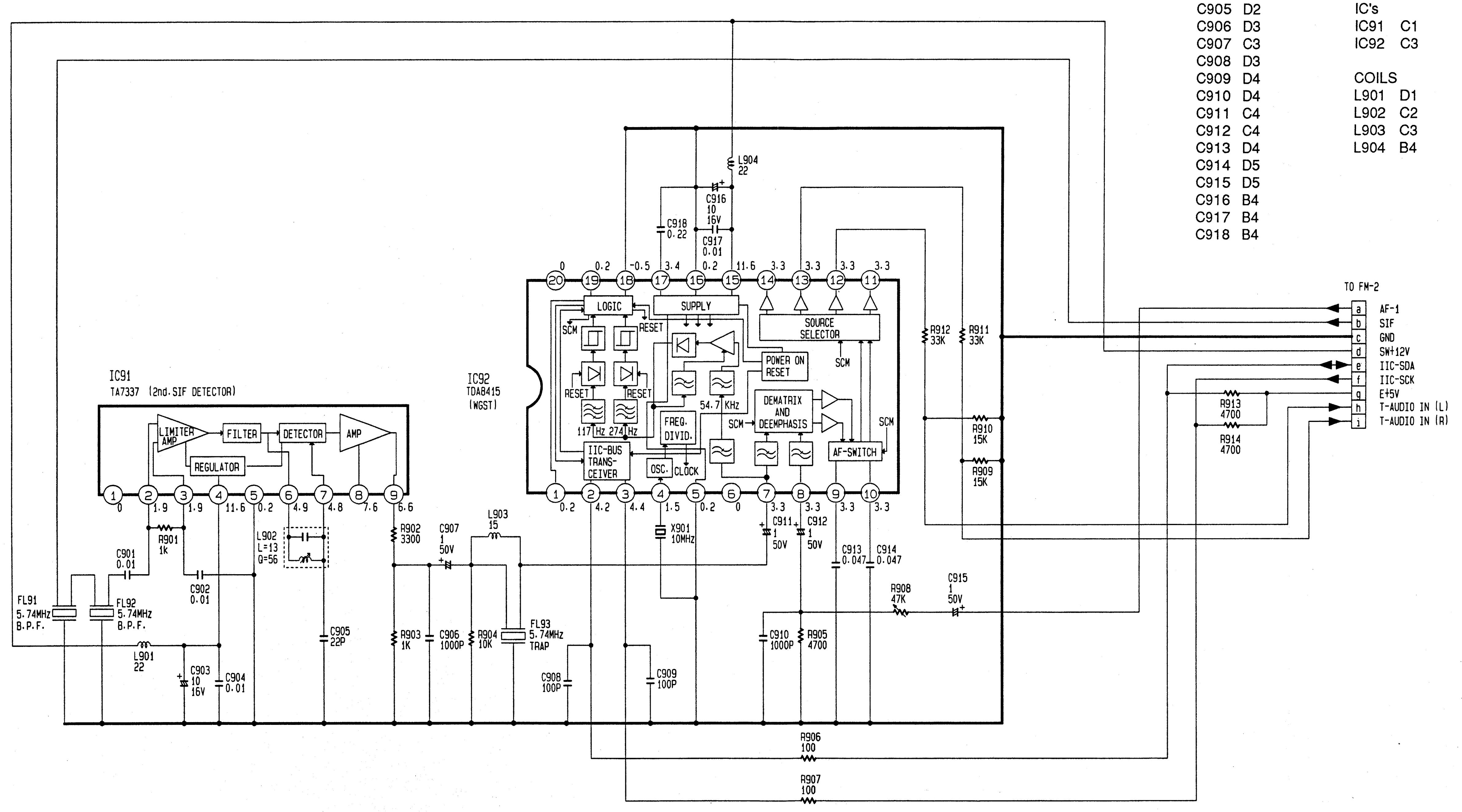
FILTERS	
FL91	D1
FL92	D1
FL93	D3

IC's	
IC91	C1
IC92	C3

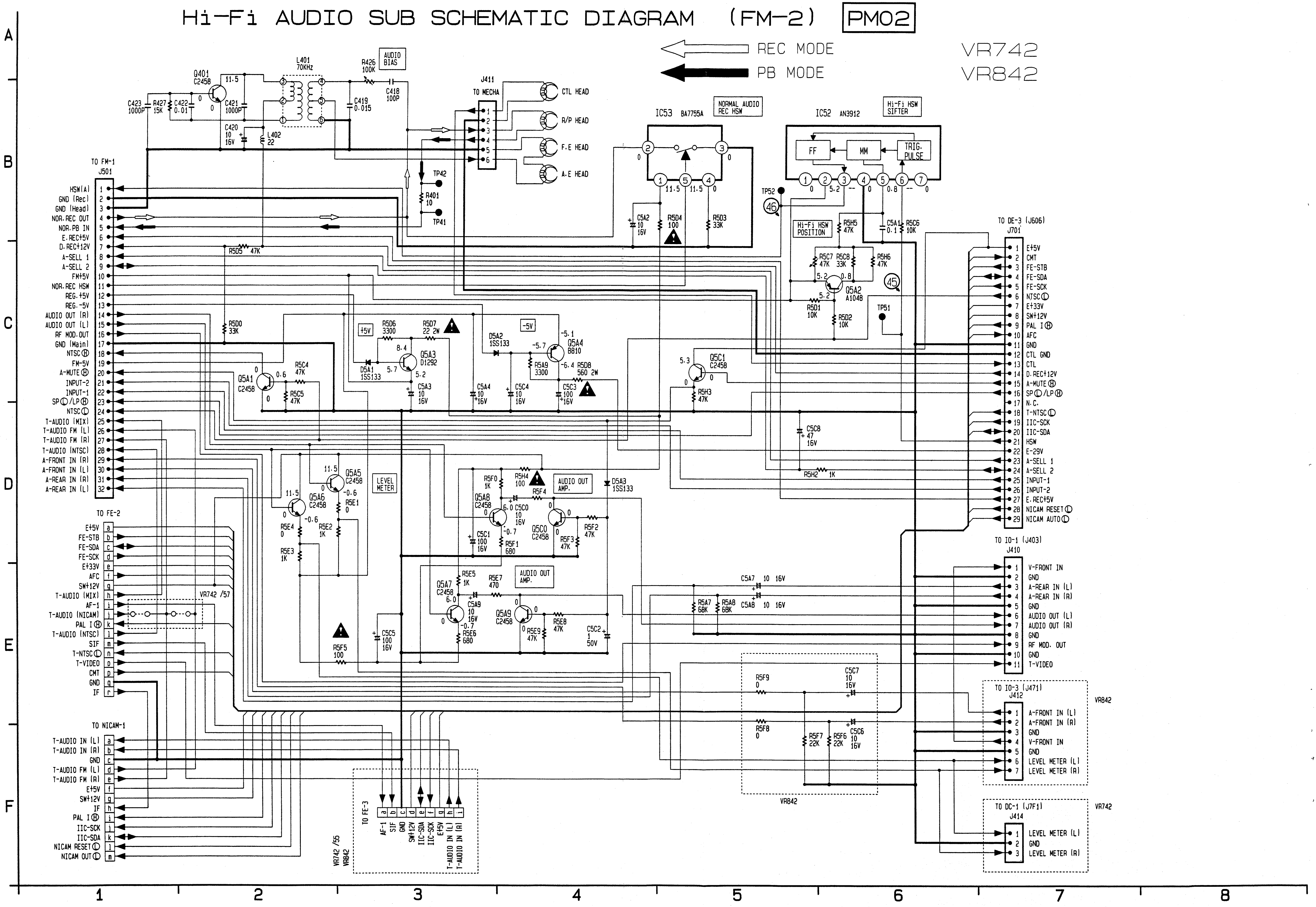
COILS	
L901	D1
L902	C2
L903	C3
L904	B4

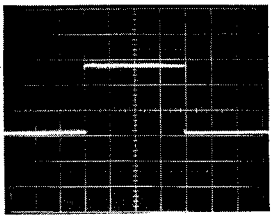
RESISTORS	
R901	C1
R902	C2
R903	D2
R904	D3
R905	D4
R906	D4
R907	E4
R908	D5
R909	C5
R910	C5
R911	C5
R912	C5
R913	C6
R914	C6

X-TAL	
X901	C4

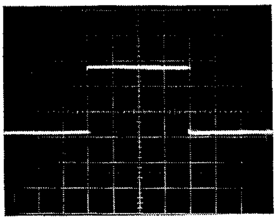

TO FM-2
a AF-1
b SIF
c GND
d SW+12V
e IIC-SDA
f IIC-SCK
g E+5V
h T-AUDIO IN (L)
i T-AUDIO IN (R)
IC91
TA7337 (2nd.SIF DETECTOR)
LIMITER AMP
FILTER
DETECTOR
AMP
REGULATOR
IC92
TDA8415
(WGST)
LOGIC
SUPPLY
SOURCE SELECTOR
POWER ON RESET
DEMATRIX AND DEEMPHASIS
AF-SWITCH
IIC-BUS TRANS-CEIVER
OSC.
CLOCK
FREQ. DIVID.
54.7 KHz
117 Hz
274 Hz
SCM
RESET
L904 22
C916 10 16V
C918 0.22
C917 0.01
R912 33K
R911 33K
R910 15K
R909 15K
R913 4700
R914 4700
FL91 5.74MHz B.P.F.
FL92 5.74MHz B.P.F.
L901 22
C901 0.01
R901 1k
C902 0.01
C903 10 16V
C904 0.01
L902 L=13 Q=56
C905 22P
R902 3300
C907 1 50V
L903 15
R903 1K
C906 1000P
R904 10K
FL93 5.74MHz TRAP
C908 100P
C909 100P
X901 10MHz
C911 1 50V
C912 1 50V
C913 0.047
C914 0.047
R908 47K
C915 1 50V
C910 1000P
R905 4700
R906 100
R907 100

Hi-Fi AUDIO SUB SCHEMATIC DIAGRAM (FM-2) PM02


REC MODE
PB MODE
VR742
VR842
Q401
C2458
L401
70KHz
R426
100K
AUDIO BIAS
C418
100P
C419
0.015
C423
1000P
R427
15K
C422
0.01
C421
1000P
C420
10
16V
L402
22
J411
TO MECHA
CTL HEAD
R/P HEAD
F.E HEAD
A.E HEAD
TP42
R401
10
TP41
IC53 BA7755A
NORMAL AUDIO REC HSW
C5A2
10
16V
R5D4
100
R5D3
33K
IC52 AN3912
Hi-Fi HSW SIFTER
FF
MM
TRIG. PULSE
TP52
46
Hi-Fi HSW POSITION
R5H5
47K
C5A1
0.1
R5C6
10K
R5C7
47K
R5C8
33K
R5H6
47K
Q5A2
A1048
45
R5D1
10K
R5D2
10K
TP51
TO FM-1
J501
HSW(A)
GND (Rec)
GND (Head)
NOR.REC OUT
NOR.PB IN
E.REC+5V
D.REC+12V
A-SELL 1
A-SELL 2
FM+5V
NOR.REC HSW
REG.+5V
REG.-5V
AUDIO OUT (R)
AUDIO OUT (L)
RF MOD.OUT
GND (Main)
NTSC Ⓗ
FM-5V
A-MUTE Ⓗ
INPUT-2
INPUT-1
SPⓁ/LPⒽ
NTSCⓁ
T-AUDIO (MIX)
T-AUDIO FM (L)
T-AUDIO FM (R)
T-AUDIO (NTSC)
A-FRONT IN (R)
A-FRONT IN (L)
A-REAR IN (R)
A-REAR IN (L)
R5D5 47K
R5D0
33K
+5V
R5D6
3300
R5D7
22 2W
-5V
Q5A1
C2458
R5C4
47K
R5C5
47K
D5A1
1SS133
Q5A3
D1292
C5A3
10
16V
D5A2
1SS133
Q5A4
B810
R5A9
3300
R5D8
560 2W
C5A4
10
16V
C5C4
10
16V
C5C3
100
16V
Q5C1
C2458
R5H3
47K
C5C8
47
16V
R5H2 1K
TO DE-3 (J606)
J701
E+5V
CMT
FE-STB
FE-SDA
FE-SCK
NTSCⓁ
E+33V
SW+12V
PAL IⒽ
AFC
GND
CTL GND
CTL
D.REC+12V
A-MUTE Ⓗ
SPⓁ/LPⒽ
N.C.
T-NTSCⓁ
IIC-SCK
IIC-SDA
HSW
E-29V
A-SELL 1
A-SELL 2
INPUT-1
INPUT-2
E.REC+5V
NICAM RESETⓁ
NICAM AUTOⓁ
Q5A5
C2458
LEVEL METER
Q5A6
C2458
R5E1
0
R5E4
0
R5E2
1K
R5E3
1K
R5F0
1K
R5H4
100
AUDIO OUT AMP.
R5F4
Q5A8
C2458
C5C0
10
16V
Q5C0
C2458
C5C1
100
16V
R5F1
680
R5F3
47K
R5F2
47K
D5A3
1SS133
TO FE-2
E+5V
FE-STB
FE-SDA
FE-SCK
E+33V
AFC
SW+12V
T-AUDIO (MIX)
AF-1
T-AUDIO (NICAM)
PAL IⒽ
T-AUDIO (NTSC)
SIF
T-NTSCⓁ
T-VIDEO
CMT
GND
IF
VR742 /57
Q5A7
C2458
R5E5
1K
R5E7
470
AUDIO OUT AMP.
C5A9
10
16V
Q5A9
C2458
R5E6
680
R5E9
47K
R5E8
47K
C5C2
1
50V
C5C5
100
16V
R5F5
100
TO NICAM-1
T-AUDIO IN (L)
T-AUDIO IN (R)
GND
T-AUDIO FM (L)
T-AUDIO FM (R)
E+5V
SW+12V
IF
PAL IⒽ
IIC-SCK
IIC-SDA
NICAM RESETⓁ
NICAM OUTⓁ
TO FE-3
AF-1
SIF
GND
SW+12V
IIC-SDA
IIC-SCK
E+5V
T-AUDIO IN (L)
T-AUDIO IN (R)
VR742 /55
VR842
C5A7 10 16V
C5A8 10 16V
R5A7
68K
R5A8
68K
TO IO-1 (J403)
J410
V-FRONT IN
GND
A-REAR IN (L)
A-REAR IN (R)
GND
AUDIO OUT (L)
AUDIO OUT (R)
GND
RF MOD. OUT
GND
T-VIDEO
R5F9
0
C5C7
10
16V
R5F8
0
R5F7
22K
R5F6
22K
C5C6
10
16V
VR842
TO IO-3 (J471)
J412
A-FRONT IN (L)
A-FRONT IN (R)
GND
V-FRONT IN
GND
LEVEL METER (L)
LEVEL METER (R)
VR842
TO DC-1 (J7F1)
J414
LEVEL METER (L)
GND
LEVEL METER (R)
VR742
A
B
C
D
E
F
1
2
3
4
5
6
7
8



㊺ TP51 PAL SP PLAY
0.2mV/Div. 5msec/Div.



㊻ TP52 PAL SP PLAY
0.2mV/Div. 5msec/Div.

CAPACITORS	
C5A1	B6
C5A2	B4
C5A3	C3
C5A4	C3
C5A7	E5
C5A8	E5
C5A9	E3
C5C0	D4
C5C1	D3
C5C2	E4
C5C3	C4
C5C4	C4
C5C5	E3
C5C6	F6
C5C7	E6
C5C8	D5
C418	B3
C419	B3
C420	B2
C421	B2
C422	B2
C423	B1

DIODES	
D5A1	C3
D5A2	C3
D5A3	D4

IC's	
IC52	B6
IC53	B5

CONNECTORS	
J410	D7
J411	B3
J412	E7
J414	F7
J501	B1
J701	B7

COILS	
L401	A2
L402	B2

TRANSISTORS	
Q5A1	C2
Q5A2	C6
Q5A3	C3
Q5A4	C4
Q5A5	D3
Q5A6	D2
Q5A7	E3
Q5A8	D3
Q5A9	E4
Q5C0	D4
Q5C1	C5
Q401	A2

RESISTORS	
R5A7	E5
R5A8	E5
R5A9	C4
R5C4	C2
R5C5	C2
R5C6	B6
R5C7	C6
R5C8	C6
R5D0	C2
R5D1	C5
R5D2	C6
R5D3	B5
R5D4	B5
R5D5	C2
R5D6	C3
R5D7	C3
R5D8	C4
R5E1	D3
R5E2	D2
R5E3	D2
R5E4	D2
R5E5	E3
R5E6	E3
R5E7	E3
R5E8	E4
R5E9	E4
R5F0	D3
R5F1	D4
R5F2	D4
R5F3	D4
R5F4	D4
R5F5	E2
R5F6	F6
R5F7	F5
R5F8	F5
R5F9	E5
R5H2	D5
R5H3	C5
R5H4	D4
R5H5	B6
R5H6	C6
R401	B3
R426	A3
R427	B1

CAPACITORS

C951	F7
C953	E7
C955	D2
C956	D2
C957	D3
C959	E2
C960	E3
C961	E4
C962	E4
C963	E4
C964	D5
C965	C4
C966	C4
C967	E6
C968	C5
C969	B6
C970	B6
C971	B6
C972	B6
C973	C6
C974	C6
C975	C6
C976	C6
C977	B7
C978	D3
C979	E3
C980	E6
C981	E6
C982	D7
C983	C7
C984	C6
C985	D7
C986	D7
C987	D6
C988	D6
C989	D8
C990	D8

DIODES

D951	F8
D952	F8

FILTERS

FL95	E4
FL96	E4
FL97	B5
FL98	C5

IC's

IC95	C4
IC96	D6

CONNECTOR

J9C1	E8

COILS

L951	F7
L953	E7
L954	B4
L955	D2
L956	E2
L957	E4
L958	B6
L959	B6
L960	B5
L962	B7
L963	D4
L964	E3

TRANSISTORS

Q951	B4
Q952	D2
Q953	D3
Q954	E2
Q955	E3
Q956	D2
Q966	E6
Q967	E6
Q968	B6
Q969	B6
Q970	B6
Q971	C6
Q972	C7
Q973	C7
Q974	C6
Q975	D6
Q976	E5

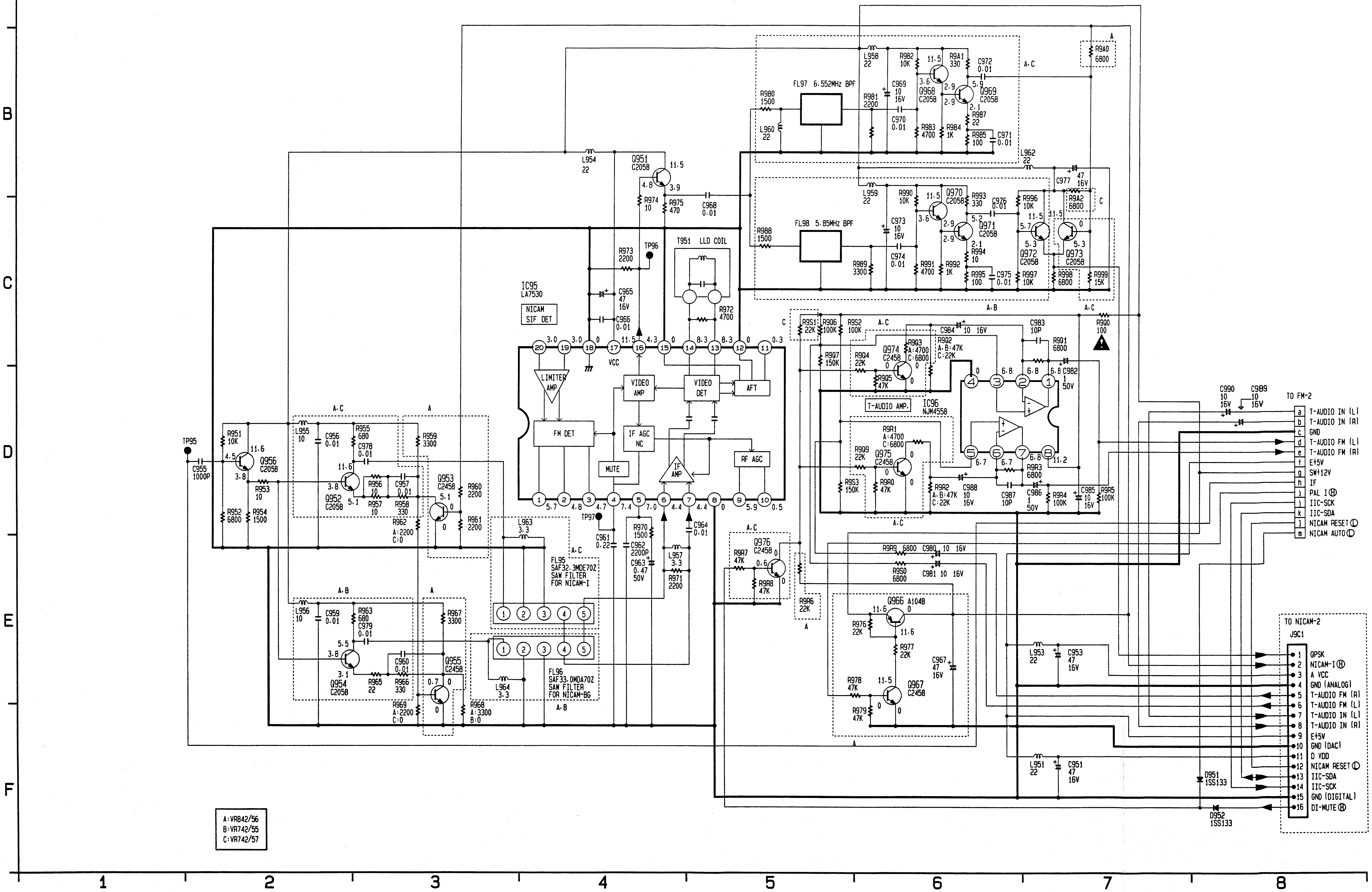
RESISTORS

R9A0	B7
R9A1	B6
R9A2	C7
R9Q0	C7
R9Q1	C7
R9Q2	C6
R9Q3	C6
R9Q4	C6
R9Q5	D6
R9Q6	C5
R9Q7	C5
R9Q9	D6
R9R0	D6
R9R1	D6
R9R2	D6
R9R3	D7
R9R4	D7
R9R5	D7
R9R6	E5
R9R7	E5
R9R8	E5
R9R9	E6
R9S0	E6
R9S1	C5
R9S2	C5
R9S3	D5
R951	D2
R952	D2
R953	D2
R954	D2
R955	D3
R956	D3
R957	D3
R958	D3
R959	D3
R960	D3
R961	D3
R962	D3
R963	E3
R965	E3
R966	E3
R967	E3
R968	F3
R969	F3
R970	D4
R971	E4
R972	C5
R973	C4
R974	C4
R975	C4
R976	E6
R977	E6
R978	E6
R979	F6
R980	B5
R981	B6
R982	B6
R983	B6
R984	B6
R985	B6
R987	B6
R988	C5
R989	C6
R990	B6
R991	C6
R992	C6
R993	B6
R994	C6
R995	C6
R996	C7
R997	C7
R998	C7
R999	C7

OTHER

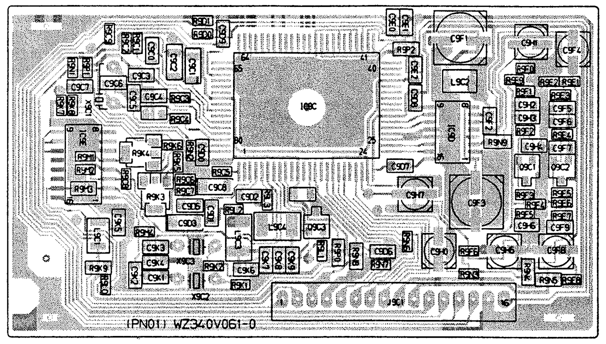
T951	C4

NICAM SIF SCHEMATIC DIAGRAM (NI-1) PM02 VR742 VR842


A
B
C
D
E
F
1
2
3
4
5
6
7
8
IC95
LA7530
NICAM SIF DET
LIMITER AMP
FM DET
MUTE
VIDEO AMP
IF AGC NC
IF AMP
VIDEO DET
AFT
RF AGC
VCC
T951 LLD COIL
TP95
TP96
TP97
Q951 C2058
Q952 C2058
Q953 C2458
Q954 C2058
Q955 C2458
Q956 C2058
Q966 A1048
Q967 C2458
Q968 C2058
Q969 C2058
Q970 C2058
Q971 C2058
Q972 C2058
Q973 C2058
Q974 C2458
Q975 C2458
Q976 C2458
FL95 SAF32.3MDE70Z SAW FILTER FOR NICAM-I
FL96 SAF33.0MDA70Z SAW FILTER FOR NICAM-BG
FL97 6.552MHz BPF
FL98 5.85MHz BPF
IC96 NJM4558
T-AUDIO AMP.
D951 1SS133
D952 1SS133
TO FM-2
a T-AUDIO IN (L)
b T-AUDIO IN (R)
c GND
d T-AUDIO FM (L)
e T-AUDIO FM (R)
f E+5V
g SW+12V
h IF
i PAL I(H)
j IIC-SCK
k IIC-SDA
l NICAM RESET(L)
m NICAM AUTO(L)
TO NICAM-2
J9C1
1 QPSK
2 NICAM-I(H)
3 A VCC
4 GND (ANALOG)
5 T-AUDIO FM (R)
6 T-AUDIO FM (L)
7 T-AUDIO IN (L)
8 T-AUDIO IN (R)
9 E+5V
10 GND (DAC)
11 D VDD
12 NICAM RESET(L)
13 IIC-SDA
14 IIC-SCK
15 GND (DIGITAL)
16 DI-MUTE(H)
A:VR842/56
B:VR742/55
C:VR742/57

NICAM DETECTOR P.C.B DRAWING PN01 (VR742/VR842)

"Inserted components are dependent on the set type"



CAPACITORS	
C9C0	B2
C9C1	B2
C9C2	B2
C9C3	B2
C9C4	B2
C9C5	B2
C9C6	B2
C9C7	B2
C9C8	B2
C9D0	B2
C9D1	B2
C9D2	B2
C9D3	B2
C9D5	B2
C9D6	B2
C9D7	B2
C9D8	B2
C9D9	B2
C9E0	B2
C9E1	B2
C9E2	B2
C9F1	B3
C9F2	B3
C9F3	B3
C9F4	B3
C9F5	B3
C9F6	B3
C9F7	B3
C9F8	B3
C9F9	B3
C9H0	B3
C9H1	B3
C9H2	B3
C9H3	B2
C9H4	B3
C9H5	B3
C9H6	B3
C9H7	B2
C9K1	B2
C9K2	B2
C9K3	B2
C9K4	B2
C9K5	B2
C9K6	B2
C9K7	B2
C9K8	B2
C9K9	B2

IC's	
IC9C	B2
IC9D	B3
IC9E	B2

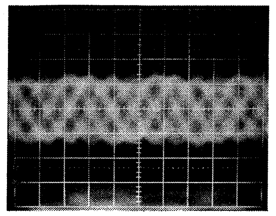
CONNECTOR	
J9C1	B2

COILS	
L9C1	B2
L9C2	B3
L9C3	B2
L9C4	B2

TRANSISTORS	
Q9C1	B3
Q9C2	B3
Q9C3	B2

RESISTORS	
R9C1	B2
R9C2	B2
R9C3	B2
R9C4	B2
R9C5	B2
R9C6	B2
R9C7	B2
R9C8	B2
R9C9	B2
R9D0	B2
R9D1	B2
R9E1	B3
R9E2	B3
R9E3	B3
R9E4	B3
R9E5	B3
R9E6	B3
R9E7	B3
R9E8	B3
R9E9	B3
R9F0	B3
R9F1	B3
R9F2	B3
R9F3	B3
R9F4	B3
R9F5	B3
R9F6	B3
R9K1	B2
R9K2	B2
R9K3	B2
R9K4	B2
R9K5	B2
R9K6	B2
R9K7	B2
R9K8	B2
R9K9	B2
R9L0	B2
R9L1	B2
R9L2	B2
R9L3	B2
R9M1	B2
R9M2	B2
R9M3	B2
R9M4	B2
R9N1	B2
R9N2	B2
R9N3	B3
R9N4	B3
R9N5	B3
R9N6	B2
R9N7	B2
R9N8	B2
R9N9	B2
R9P0	B2
R9P1	B2
R9P2	B2

X-TAL's	
X9C1	B2
X9C2	B2
X9C3	B2



㊿ J9C1 Pin1
0.2V/Div. 0.5µsec/Div.
(BOLY'D 50µsec/Div)

CAPACITORS	
C9C0	C2
C9C1	C2
C9C2	C2
C9C3	C2
C9C4	C2
C9C5	C2
C9C6	C2
C9C7	D2
C9C8	D3
C9D0	D2
C9D1	D3
C9D2	D3
C9D3	E3
C9D5	E3
C9D6	D5
C9D7	D6
C9D8	C6
C9D9	B2
C9E0	A2
C9E1	A2
C9E2	C2
C9F1	D6
C9F2	D7
C9F3	D7
C9F4	C7
C9F5	F7
C9F6	F7
C9F7	F7
C9F8	F6
C9F9	F6
C9H0	F5
C9H1	C7
C9H2	E7
C9H3	E7
C9H4	E7
C9H5	E6
C9H6	E6
C9H7	E6
C9K1	E4
C9K2	E4
C9K3	E4
C9K4	E4
C9K5	F4
C9K6	D3
C9K7	D3
C9K8	D3
C9K9	D3
C9L0	D3
C9L1	D3

IC's	
IC9C	B3
IC9D	B7
IC9E	F4

CONNECTOR	
J9C1	D1

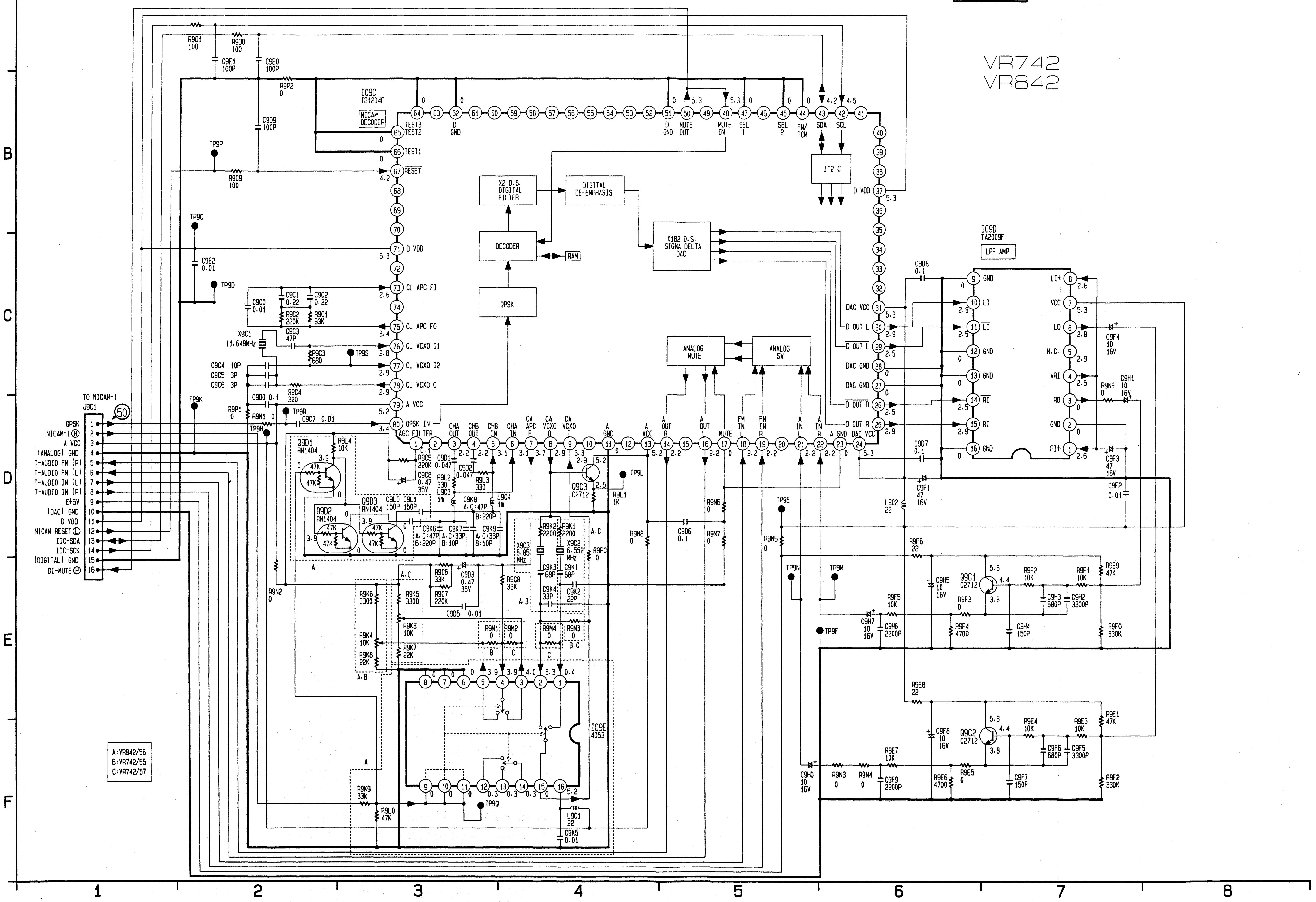
COILS	
L9C1	F4
L9C2	D6
L9C3	D3
L9C4	D3

TRANSISTORS	
Q9C1	E6
Q9C2	F6
Q9C3	D4
Q9D1	D2
Q9D2	D2
Q9D3	D3

RESISTORS	
R9C1	C2
R9C2	C2
R9C3	C2
R9C4	C2
R9C5	D3
R9C6	E3
R9C7	E3
R9C8	E4
R9C9	B2
R9D0	A2
R9D1	A2
R9E1	E7
R9E2	F7
R9E3	F7
R9E4	F7
R9E5	F6
R9E6	F6
R9E7	F6
R9E8	E6
R9E9	E7
R9F0	E7
R9F1	E7
R9F2	E7
R9F3	E6
R9F4	E6
R9F5	E6
R9F6	D6
R9K1	D4
R9K2	D4
R9K3	E3
R9K4	E3
R9K5	E3
R9K6	E3
R9K7	E3
R9K8	E3
R9K9	F3
R9L0	F3
R9L1	D4
R9L2	D3
R9L3	D3
R9L4	D3
R9P0	D4
R9P1	D2
R9P2	B2
R9M1	E3
R9M2	E4
R9M3	E4
R9M4	E4
R9N1	D2
R9N2	E2
R9N3	F6
R9N4	F6
R9N5	D5
R9N6	D5
R9N7	D5
R9N8	D4
R9N9	C7

NICAM DETECTOR SCHEMATIC DIAGRAM (NI-2) PN01

VR742
VR842

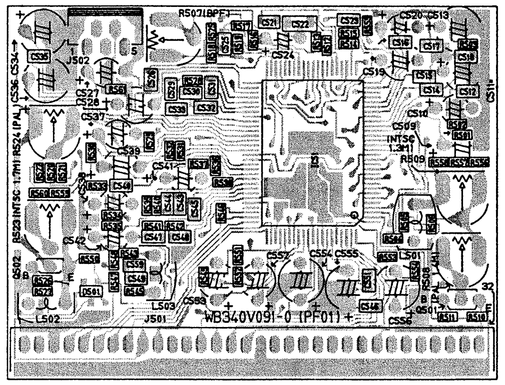

A
B
C
D
E
F
1
2
3
4
5
6
7
8
IC9C
TB1204F
NICAM DECODER
TEST3
TEST2
TEST1
RESET
D VDD
CL APC FI
CL APC FO
CL VCXO I1
CL VCXO I2
CL VCXO O
A VCC
QPSK IN
AGC FILTER
CHA OUT
CHB OUT
CHB IN
CHA IN
CA APC F
CA VCXO O
CA VCXO I
A GND
A VCC
A OUT R
A OUT L
MUTE
FM IN L
FM IN R
A IN L
A IN R
A GND
DAC VCC
D OUT R
DAC GND
DAC VCC
D OUT L
D GND
MUTE OUT
MUTE IN
SEL 1
SEL 2
FM/PCM
SDA
SCL
I²C
X2 O.S. DIGITAL FILTER
DIGITAL DE-EMPHASIS
DECODER
RAM
QPSK
X182 O.S. SIGMA DELTA DAC
ANALOG MUTE
ANALOG SW
IC9D
TA2009F
LPF AMP
GND
LI
LI
GND
GND
RI
RI
GND
LI+
VCC
LO
N.C.
VRI
RO
GND
RI+
TO NICAM-1
J9C1
50
QPSK
NICAM-I Ⓗ
A VCC
(ANALOG) GND
T-AUDIO FM (R)
T-AUDIO FM (L)
T-AUDIO IN (L)
T-AUDIO IN (R)
E+5V
(DAC) GND
D VDD
NICAM RESET Ⓛ
IIC-SDA
IIC-SCK
(DIGITAL) GND
DI-MUTE Ⓗ
TP9P
TP9C
TP9D
TP9K
TP9S
TP9R
TP9H
TP9L
TP9E
TP9N
TP9M
TP9F
TP9Q
X9C1
11.648MHz
Q9D1
RN1404
Q9D2
RN1404
Q9D3
RN1404
Q9C3
C2712
X9C3
5.85 MHz
X9C2
6.552 MHz
IC9E
4053
Q9C1
C2712
Q9C2
C2712
L9C1
22
L9C2
22
L9C3
1m
L9C4
1m
A:VR842/56
B:VR742/55
C:VR742/57

HI-FI AUDIO MAIN P.C.B DRAWING PF01 (VR742/VR842)

A

"Inserted components are dependent on the set type"

B



C

D

E

1 2 3

CAPACITORS	
C509	B3
C510	B3
C511	B3
C512	B3
C513	B3
C514	B3
C515	B3
C516	B3
C517	B3
C518	B3
C519	B3
C520	B3
C521	B2
C522	B2
C523	B2
C524	B2
C525	B2
C526	B2
C527	B2
C528	B2
C529	B2
C530	B2
C531	B2
C532	B2
C533	B2
C534	B2
C535	B2
C536	B2
C537	B2
C538	B2
C539	B2
C540	B2
C541	B2
C542	B2
C543	B2
C544	B2
C545	B2
C546	C3
C547	B2
C548	B2
C549	B2
C551	B2
C552	B2
C553	C2
C554	B2
C555	B2
C556	C3
C559	B2

DIODE	
D501	C2

IC	
IC51	B2

CONNECTORS	
J501	C2
J502	B2

COILS	
L501	B3
L502	C2
L503	C2

TRANSISTORS	
Q501	C3
Q502	B2

RESISTORS	
R501	B3
R502	B3
R503	B3
R504	B3
R505	B3
R506	B3
R507	B2
R508	B3
R509	B3
R510	C3
R511	C3
R512	B2
R513	B2
R514	B2
R515	B2
R516	B2
R517	B2
R518	B2
R519	B2
R520	B2
R521	B2
R522	B2
R523	B2
R524	B2
R525	B2
R526	B2
R527	C2
R528	B2
R529	B2
R530	B2
R531	B2
R532	B2
R533	B2
R534	B2
R535	B2
R536	B2
R537	B2
R538	B2
R539	B2
R540	B2
R541	B2
R542	B2
R543	B2
R545	C2
R546	B2
R547	B2
R548	B2
R549	B2
R550	B2
R551	B2
R552	B2
R553	B3
R554	B3
R555	B2
R556	B3
R557	B3
R558	B3
R559	B2
R560	B2
R561	B2

CAPACITORS	
C509	F5
C510	F5
C511	F6
C512	F6
C513	F6
C514	F6
C515	F6
C516	F7
C517	F7
C518	F7
C519	F7
C520	F7
C521	E8
C522	E8
C523	D8
C524	D8
C525	C8
C526	B8
C527	B7
C528	B7
C529	B7
C530	B7
C531	B7
C532	B6
C533	B6
C534	B6
C535	B6
C536	B6
C537	B5
C538	B5
C539	B5
C540	B4
C541	B4
C542	B4
C543	B4
C544	B4
C545	B4
C546	E2
C547	B4
C548	B4
C549	B3
C551	E2
C552	C2
C553	C2
C554	D2
C555	D2
C556	E2
C559	B3

DIODE	
D501	C2

IC	
IC51	B2

CONNECTORS	
J501	D1
J502	D8

COILS	
L501	F7
L502	B7
L503	B3

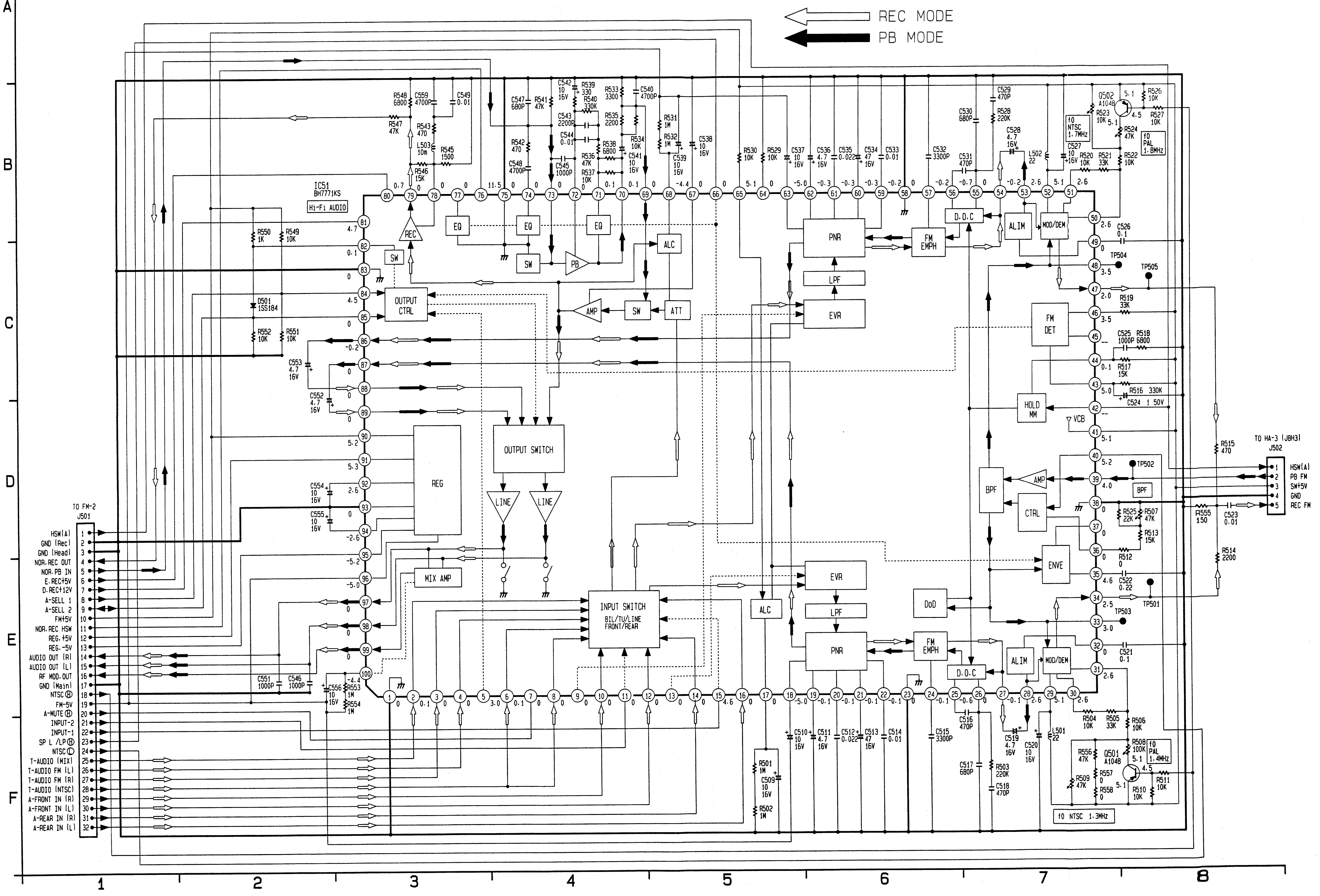
TRANSISTORS	
Q501	F7
Q502	B7

RESISTORS	
R501	F5
R502	F5
R503	F7
R504	F7
R505	F7
R506	F8
R507	D8
R508	F8
R509	F7
R510	F8
R511	F8
R512	E8
R513	D8
R514	E8
R515	D8
R516	C8
R517	C8
R518	C8
R519	C8
R520	B7
R521	B7
R522	B8
R523	B7
R524	B8
R525	D8
R526	B8
R527	B8
R528	B7
R529	B5
R530	B5
R531	B5
R532	B5
R533	B4
R534	B4
R535	B4
R536	B4
R537	B4
R538	B4
R539	B4
R540	B4
R541	B4
R542	B4
R543	B3
R545	B3
R546	B3
R547	B3
R548	B3
R549	B2
R550	B2
R551	C2
R552	C2
R553	E3
R554	E3
R555	D8
R556	F7
R557	F7
R558	F7

HI-FI AUDIO MAIN SCHEMATIC DIAGRAM (FM-1)

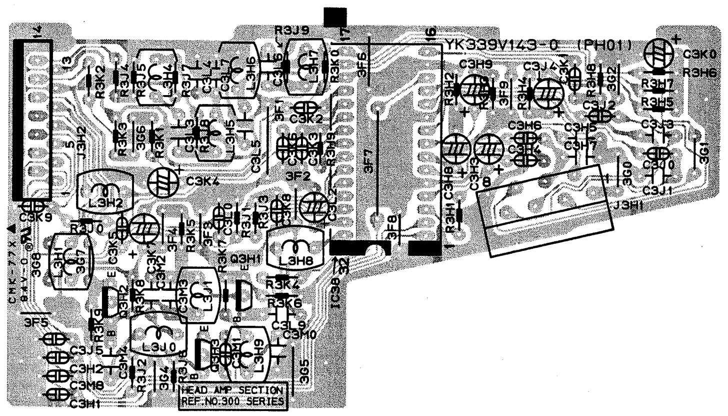
VR742
VR842

PF01


REC MODE
PB MODE
IC51
BH7771KS
Hi-Fi AUDIO
TO FM-2
J501
HSW(A)
GND (Rec)
GND (Head)
NOR.REC OUT
NOR.PB IN
E.REC+5V
D.REC+12V
A-SELL 1
A-SELL 2
FM+5V
NOR.REC HSW
REG.+5V
REG.-5V
AUDIO OUT (R)
AUDIO OUT (L)
RF MOD.OUT
GND (Main)
NTSC
FM-5V
A-MUTE
INPUT-2
INPUT-1
SP L /LP
NTSC
T-AUDIO (MIX)
T-AUDIO FM (L)
T-AUDIO FM (R)
T-AUDIO (NTSC)
A-FRONT IN (R)
A-FRONT IN (L)
A-REAR IN (R)
A-REAR IN (L)
TO HA-3 (JBH3)
J502
HSW(A)
PB FM
SW+5V
GND
REC FM
REC
SW
EQ
PB
ALC
AMP
ATT
OUTPUT CTRL
OUTPUT SWITCH
LINE
REG
MIX AMP
INPUT SWITCH
BIL/TU/LINE
FRONT/REAR
PNR
LPF
EVR
FM EMPH
D.O.C
ALIM
MOD/DEM
FM DET
HOLD MM
BPF
CTRL
ENVE
DoD
Q502
A1048
Q501
A1048
f0 NTSC 1.7MHz
f0 PAL 1.8MHz
f0 PAL 1.4MHz
f0 NTSC 1.3MHz
VCB
TP501
TP502
TP503
TP504
TP505
D501
1SS184
A
B
C
D
E
F
1
2
3
4
5
6
7
8

HEAD AMP P.C.B DRAWING PH01 (VR642)

"Inserted components are dependent on the set type"



CAPACITORS	
C3H1	C2
C3H2	B2
C3H3	B3
C3H4	B3
C3H5	B3
C3H6	B3
C3H7	B3
C3H8	B3
C3H9	B3
C3J0	B3
C3J1	B3
C3J2	B3
C3J3	B3
C3J4	B4
C3J5	B2
C3K0	B3
C3K1	B3
C3K2	B2
C3K3	B2
C3K4	B2
C3K5	B2
C3K6	B2
C3K7	B2
C3K8	B2
C3K9	B1
C3L0	B2
C3L2	B2
C3L3	B2
C3L4	B2
C3L5	B2
C3L6	B2
C3L7	B2
C3L9	B2
C3M0	B2
C3M1	B2
C3M2	B2
C3M3	B2
C3M4	B2
C3M8	C2

IC	
IC38	B2

CONNECTORS	
J3H1	B3
J3H2	B2

COILS	
L3H1	B2
L3H2	B2
L3H4	B2
L3H5	B2
L3H6	B2
L3H7	B2
L3H8	B2
L3H9	B2
L3J0	B2
L3J1	B2

TRANSISTORS	
Q3H1	B2
Q3H2	B2
Q3H3	B2

RESISTORS	
R3H1	B3
R3H2	B3
R3H3	B3
R3H4	B3
R3H5	B3
R3H6	B3
R3H7	B3
R3H8	B3
R3H9	B2
R3J0	B2
R3J1	B2
R3J2	B2
R3J3	B2
R3J4	B2
R3J5	B2
R3J6	B2
R3J7	B2
R3J8	B2
R3J9	B2
R3K0	B2
R3K1	B2
R3K2	B2
R3K3	B2
R3K4	B2
R3K5	B2
R3K6	B2
R3K7	B2
R3K8	B2
R3K9	B2

CAPASITORS	
C3H1	D3
C3H2	E3
C3H3	D4
C3H4	D4
C3H5	E4
C3H6	D4
C3H7	D4
C3H8	D4
C3H9	D4
C3J0	D5
C3J1	E5
C3J2	D5
C3J3	D5
C3J4	D5
C3J5	E5
C3K0	C5
C3K1	C5
C3K2	C5
C3K3	C5
C3K4	B5
C3K5	B5
C3K6	C5
C3K7	C4
C3K8	C4
C3K9	B4
C3L0	C4
C3L2	C4
C3L3	B6
C3L4	B6
C3L5	B6
C3L6	B6
C3L9	C3
C3M0	D3
C3M1	D3
C3M2	D2
C3M3	B2
C3M4	D2
C3M8	E2

IC	
IC38	C3

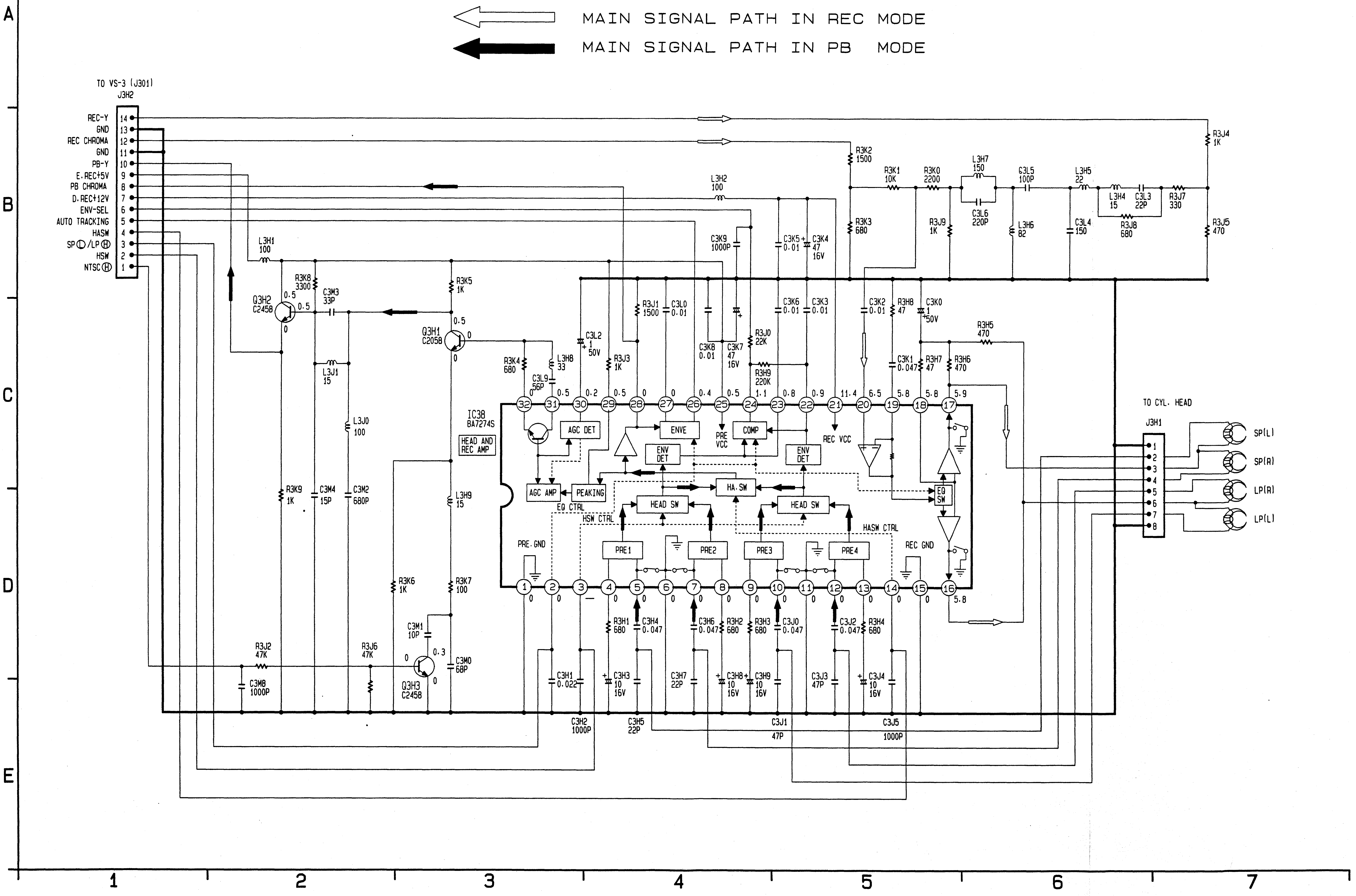
CONNECTORS	
J3H1	C7
J3H2	A1

COILS	
L3H1	B2
L3H2	B4
L3H4	B6
L3H5	B6
L3H6	B6
L3H7	B6
L3H8	C3
L3H9	D3
L3J0	C2
L3J1	C2

TRANSISTORS	
Q3H1	C3
Q3H2	C2
Q3H3	E3

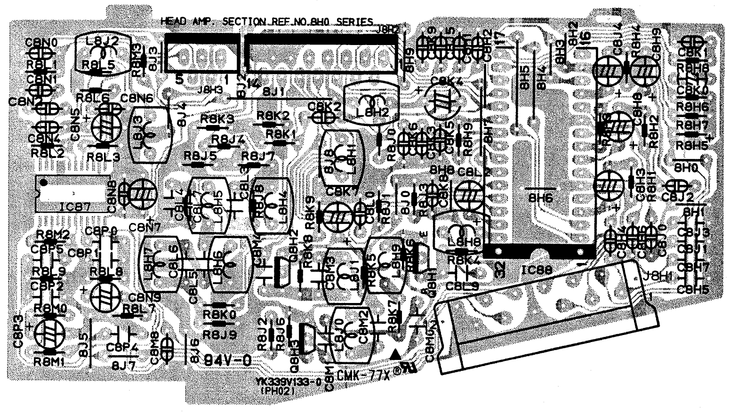
RESISTORS	
R3H1	D4
R3H2	D4
R3H3	D4
R3H4	D5
R3H5	C6
R3H6	C5
R3H7	C5
R3H8	C5
R3H9	C4
R3J0	C4
R3J1	C4
R3J2	D2
R3J3	C4
R3J4	B7
R3J5	B7
R3J6	D2
R3J7	B7
R3J8	B6
R3J9	B5
R3K0	B5
R3K1	B5
R3K2	B5
R3K3	B5
R3K4	C3
R3K5	B3
R3K6	D3
R3K7	D3
R3K8	B2
R3K9	D2

HEAD AMP SCHEMATIC DIAGRAM (HA-1) PH01


MAIN SIGNAL PATH IN REC MODE
MAIN SIGNAL PATH IN PB MODE
TO VS-3 (J301)
J3H2
REC-Y 14
GND 13
REC CHROMA 12
GND 11
PB-Y 10
E.REC+5V 9
PB CHROMA 8
D.REC+12V 7
ENV-SEL 6
AUTO TRACKING 5
HASW 4
SP Ⓛ/LP Ⓗ 3
HSW 2
NTSC Ⓗ 1
L3H1 100
R3K8 3300
C3M3 33P
Q3H2 C2458
R3K5 1K
Q3H1 C2058
L3J1 15
L3J0 100
R3K9 1K
C3M4 15P
C3M2 680P
L3H9 15
R3K6 1K
R3K7 100
C3M1 10P
C3M0 68P
Q3H3 C2458
R3J2 47K
R3J6 47K
C3M8 1000P
R3K4 680
L3H8 33
C3L9 56P
C3L2 1 50V
R3J3 1K
R3J1 1500
C3L0 0.01
L3H2 100
C3K9 1000P
C3K8 0.01
C3K7 47 16V
R3J0 22K
R3H9 220K
C3K5 0.01
C3K4 47 16V
C3K6 0.01
C3K3 0.01
R3K2 1500
R3K3 680
R3K1 10K
R3K0 2200
L3H7 150
C3L6 220P
R3J9 1K
C3L5 100P
L3H6 82
L3H5 22
C3L4 150
L3H4 15
C3L3 22P
R3J8 680
R3J7 330
R3J4 1K
R3J5 470
C3K2 0.01
R3H8 47
C3K0 1 50V
C3K1 0.047
R3H7 47
R3H6 470
R3H5 470
IC38 BA7274S
HEAD AND REC AMP
AGC DET
AGC AMP
PEAKING
ENVE
ENV DET
COMP
PRE VCC
REC VCC
HA.SW
HEAD SW
EQ SW
EQ CTRL
HSW CTRL
HASW CTRL
PRE.GND
REC GND
PRE1
PRE2
PRE3
PRE4
R3H1 680
C3H4 0.047
C3H6 0.047
R3H2 680
R3H3 680
C3J0 0.047
C3J2 0.047
R3H4 680
C3H1 0.022
C3H3 10 16V
C3H7 22P
C3H8 10 16V
C3H9 10 16V
C3J3 47P
C3J4 10 16V
C3H2 1000P
C3H5 22P
C3J1 47P
C3J5 1000P
TO CYL. HEAD
J3H1
SP(L)
SP(R)
LP(R)
LP(L)
A
B
C
D
E
1
2
3
4
5
6
7

HEAD AMP HI-FI HEAD AMP P.C.B DRAWING PH02 (VR742/VR842)

"Inserted components are dependent on the set type"



CAPACITORS	
C8H1	B2
C8H2	B2
C8H3	B3
C8H4	B3
C8H5	B3
C8H6	B3
C8H7	B3
C8H8	B3
C8H9	B3
C8J0	B3
C8J1	B3
C8J2	B3
C8J3	B3
C8J4	B3
C8J5	B2
C8K0	B3
C8K1	B3
C8K2	B2
C8K3	B2
C8K4	B2
C8K5	B2
C8K6	B2
C8K7	B2
C8K8	B2
C8K9	B2
C8L0	B2
C8L2	B2
C8L3	B2
C8L4	B2
C8L5	B2
C8L6	B2
C8L7	B2
C8L9	B2
C8M1	B2
C8M0	B2
C8M2	B2
C8M3	B2
C8M4	B2
C8M8	B2
C8N0	B1
C8N1	B1
C8N2	B1
C8N4	B1
C8N5	B1
C8N6	B2
C8N7	B2
C8N8	B1
C8N9	B2
C8P0	B1
C8P1	B1
C8P2	B1
C8P3	B1
C8P4	B2
C8P5	B1

IC's	
IC87	B1
IC88	B3

CONNECTORS	
J8H1	B3
J8H2	B2
J8H3	B2

COILS	
L8H1	B2
L8H2	B2
L8H4	B2
L8H5	B2
L8H6	B2
L8H7	B2
L8H8	B2
L8H9	B2
L8J0	B2
L8J1	B2
L8J2	B1
L8J3	B2

TRANSISTORS	
Q8H1	B2
Q8H2	B2
Q8H3	B2

RESISTORS	
R8H1	B3
R8H2	B3
R8H3	B3
R8H4	B3
R8H5	B3
R8H6	B3
R8H7	B3
R8H8	B3
R8H9	B2
R8J0	B2
R8J1	B2
R8J2	B2
R8J3	B2
R8J4	B2
R8J5	B2
R8J6	B2
R8J7	B2
R8J8	B2
R8J9	B2
R8K0	B2
R8K1	B2
R8K2	B2
R8K3	B2
R8K4	B2
R8K5	B2
R8K6	B2
R8K7	B2
R8K8	B2
R8K9	B2
R8L1	B1
R8L2	B1
R8L3	B1
R8L5	B1
R8L6	B1
R8L7	B2
R8L8	B1
R8L9	B1
R8M0	B1
R8M1	B1
R8M2	B1
R8M3	B2

CAPACITORS	
C8H1	D3
C8H2	E3
C8H3	D4
C8H4	D4
C8H5	E4
C8H6	D4
C8H7	D4
C8H8	D4
C8H9	D4
C8J0	D5
C8J1	E5
C8J2	D5
C8J3	D5
C8J4	D5
C8J5	E5
C8K0	C5
C8K1	C5
C8K2	C5
C8K3	C5
C8K4	B5
C8K5	B5
C8K6	C5
C8K7	C4
C8K8	C4
C8K9	B4
C8L0	C4
C8L2	C4
C8L3	B6
C8L4	B6
C8L5	B6
C8L6	B6
C8L7	B6
C8L9	C3
C8M0	D3
C8M1	D3
C8M2	D2
C8M3	B2
C8M4	D2
C8M8	D2

IC	
IC88	C3

CONNECTORS	
J8H1	C7
J8H2	A1

COILS	
L8H1	B2
L8H2	B4
L8H4	B6
L8H5	B6
L8H6	B6
L8H7	B6
L8H8	C3
L8H9	D3
L8J0	C2
L8J1	C2

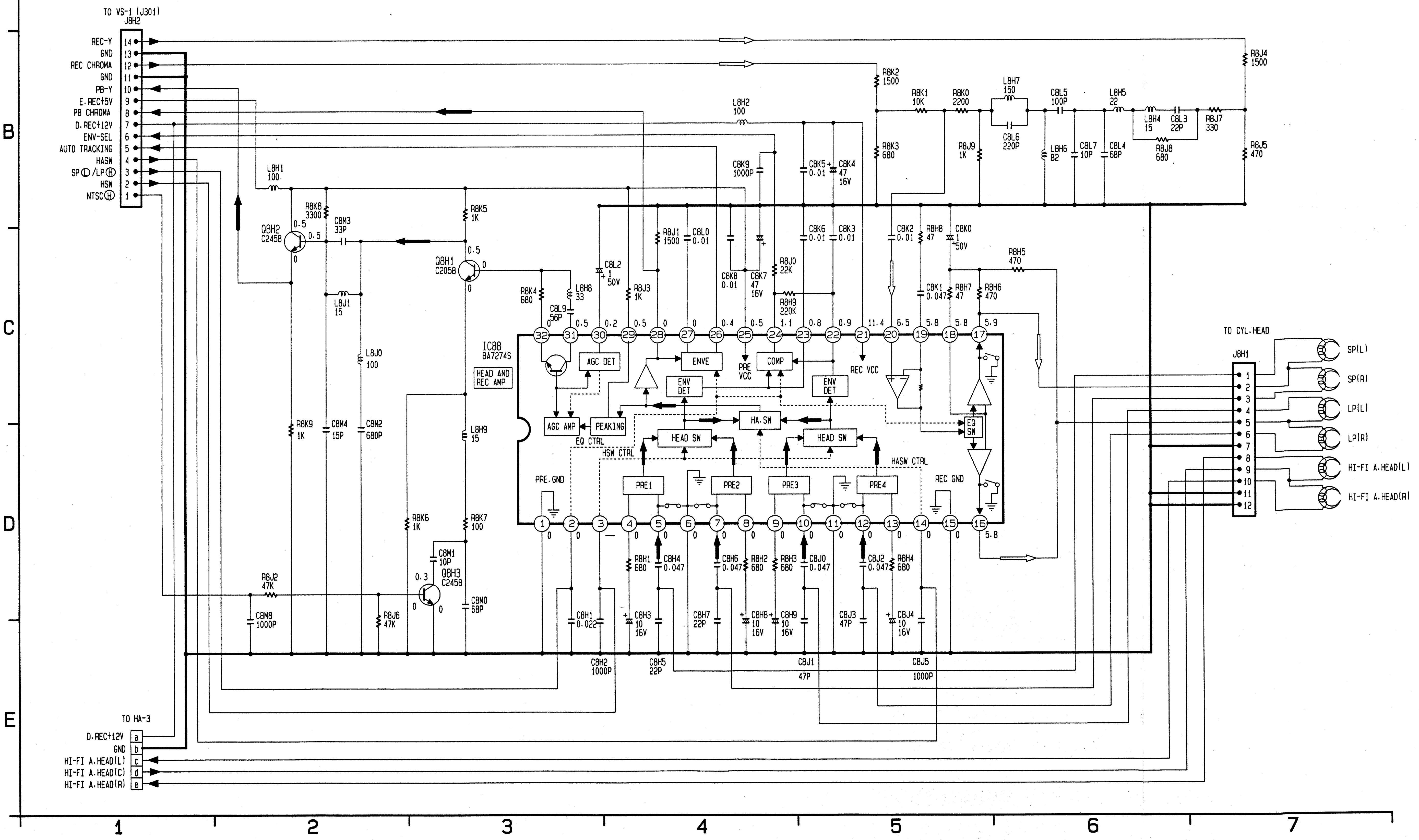
TRANSISTORS	
Q8H1	C3
Q8H2	C2
Q8H3	D3

RESISTORS	
R8H1	D4
R8H2	D4
R8H3	D4
R8H4	D5
R8H5	C6
R8H6	C5
R8H7	C5
R8H8	C5
R8H9	C4
R8J0	C4
R8J1	C4
R8J2	D2
R8J3	C4
R8J4	B7
R8J5	B7
R8J6	D2
R8J7	B7
R8J8	B6
R8J9	B5
R8K0	B5
R8K1	B5
R8K2	B5
R8K3	B5
R8K4	C3
R8K5	B3
R8K6	D3
R8K7	D3
R8K8	B2
R8K9	D2

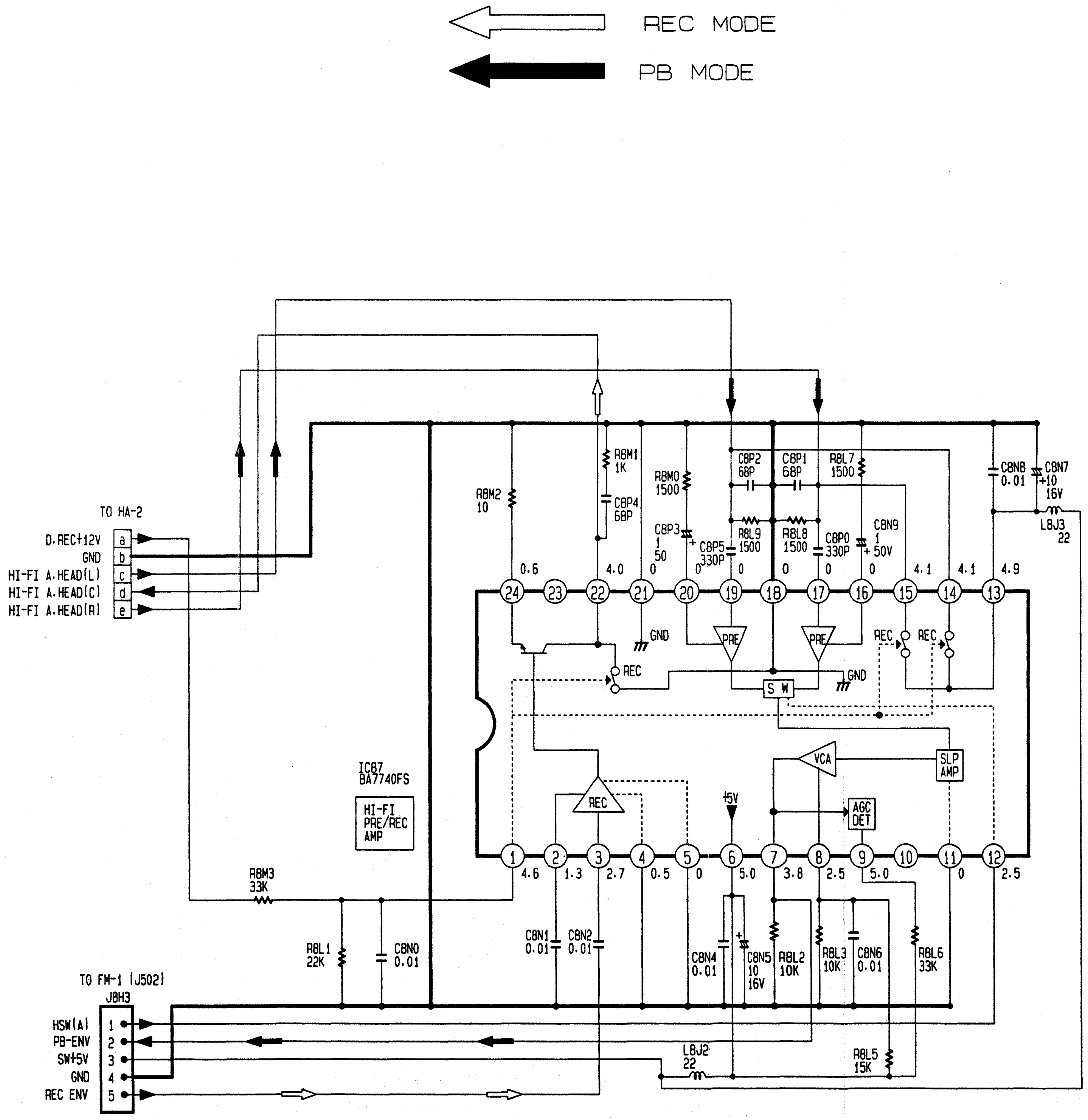
HEAD AMP SCHEMATIC DIAGRAM (HA-2) PH02

MAIN SIGNAL PATH IN REC MODE

MAIN SIGNAL PATH IN PB MODE


A
B
C
D
E
1
2
3
4
5
6
7
TO VS-1 (J301)
J8H2
REC-Y
GND
REC CHROMA
GND
PB-Y
E.REC+5V
PB CHROMA
D.REC+12V
ENV-SEL
AUTO TRACKING
HASW
SP(L)/LP(H)
HSW
NTSC(H)
L8H1 100
R8K8 3300
C8M3 33P
Q8H2 C2458
R8K5 1K
Q8H1 C2058
R8K4 680
L8H8 33
C8L9 56P
C8L2 1 50V
R8J3 1K
R8J1 1500
C8L0 0.01
C8K8 0.01
C8K7 47 16V
C8K9 1000P
R8J0 22K
R8H9 220K
L8H2 100
C8K5 0.01
C8K4 47 16V
C8K6 0.01
C8K3 0.01
R8K2 1500
R8K3 680
R8K1 10K
R8K0 2200
R8J9 1K
L8H7 150
C8L6 220P
C8L5 100P
L8H6 82
C8L7 10P
C8L4 68P
L8H5 22
L8H4 15
C8L3 22P
R8J7 330
R8J8 680
R8J4 1500
R8J5 470
C8K2 0.01
R8H8 47
C8K0 1 50V
C8K1 0.047
R8H7 47
R8H6 470
R8H5 470
L8J1 15
L8J0 100
IC8B BA7274S
HEAD AND REC AMP
AGC DET
ENVE
PRE VCC
COMP
REC VCC
ENV DET
ENV DET
AGC AMP
PEAKING
EQ CTRL
HA.SW
HEAD SW
HEAD SW
HSW CTRL
HASW CTRL
EQ SW
PRE.GND
PRE1
PRE2
PRE3
PRE4
REC GND
R8K9 1K
C8M4 15P
C8M2 680P
L8H9 15
R8K6 1K
R8K7 100
C8M1 10P
Q8H3 C2458
C8M0 68P
R8J2 47K
C8M8 1000P
R8J6 47K
R8H1 680
C8H4 0.047
C8H6 0.047
R8H2 680
R8H3 680
C8J0 0.047
C8J2 0.047
R8H4 680
C8H1 0.022
C8H3 10 16V
C8H7 22P
C8H8 10 16V
C8H9 10 16V
C8J3 47P
C8J4 10 16V
C8H2 1000P
C8H5 22P
C8J1 47P
C8J5 1000P
TO CYL.HEAD
J8H1
SP(L)
SP(R)
LP(L)
LP(R)
HI-FI A.HEAD(L)
HI-FI A.HEAD(R)
TO HA-3
D.REC+12V
GND
HI-FI A.HEAD(L)
HI-FI A.HEAD(C)
HI-FI A.HEAD(R)

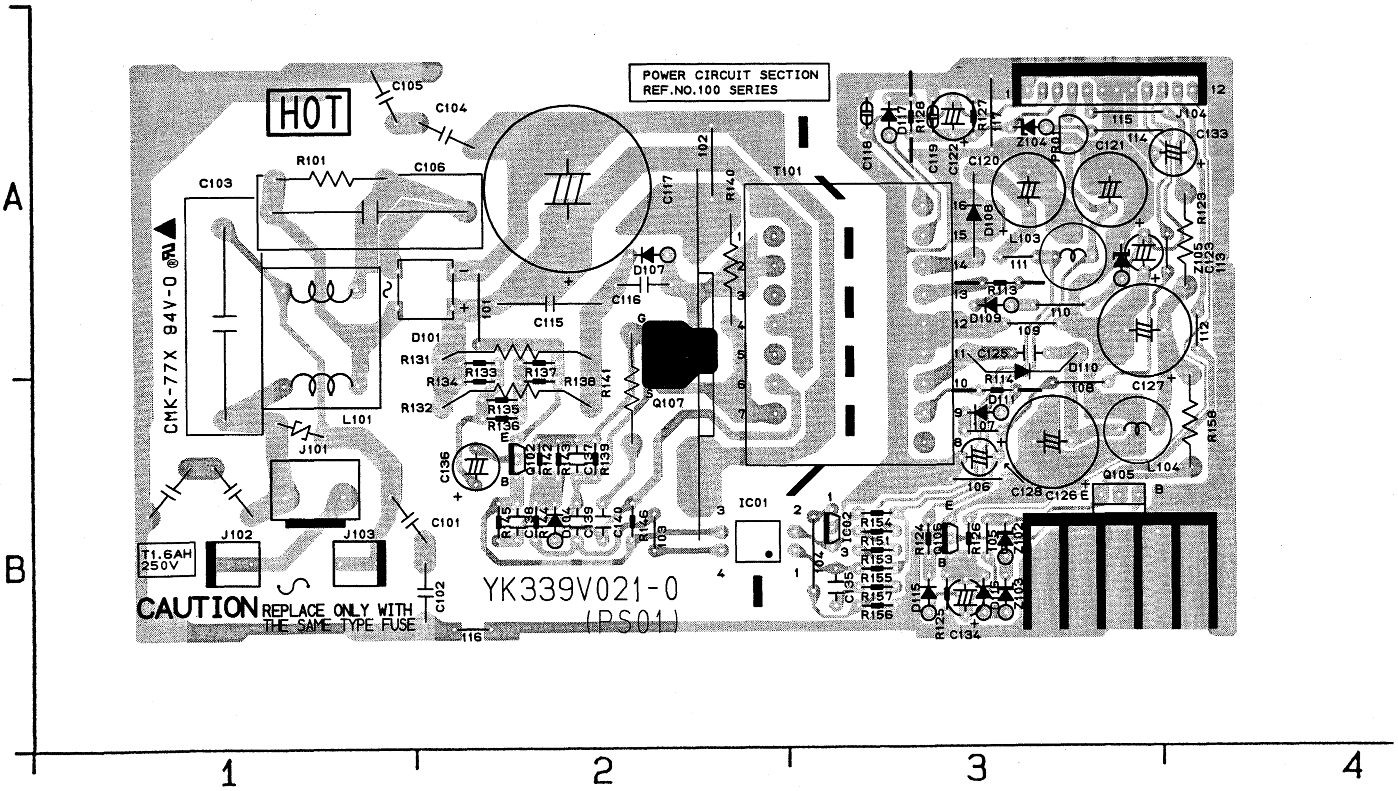
HI-FI HEAD AMP SCHEMATIC DIAGRAM (HA-3) PH02


REC MODE
PB MODE
TO HA-2
D.REC+12V a
GND b
HI-FI A.HEAD(L) c
HI-FI A.HEAD(C) d
HI-FI A.HEAD(R) e
IC87
BA7740FS
HI-FI PRE/REC AMP
R8M1 1K
C8P4 68P
R8M0 1500
R8M2 10
C8P2 68P
C8P1 68P
R8L7 1500
C8P3 1 50
C8P5 330P
R8L9 1500
R8L8 1500
C8P0 330P
C8N9 1 50V
C8N8 0.01
C8N7 10 16V
L8J3 22
0.6
4.0
0
0
0
0
0
0
4.1
4.1
4.9
GND
REC
PRE
PRE
S W
REC
REC
VCA
SLP AMP
AGC DET
+5V
4.6
1.3
2.7
0.5
0
5.0
3.8
2.5
5.0
0
2.5
R8M3 33K
R8L1 22K
C8N0 0.01
C8N1 0.01
C8N2 0.01
C8N4 0.01
C8N5 10 16V
R8L2 10K
R8L3 10K
C8N6 0.01
R8L6 33K
L8J2 22
R8L5 15K
TO FM-1 (J502)
J8H3
HSW(A) 1
PB-ENV 2
SW+5V 3
GND 4
REC ENV 5

CAPACITORS	
C8N0	D3
C8N1	D3
C8N2	D3
C8N4	D4
C8N5	D4
C8N6	D4
C8N7	C5
C8N8	C5
C8N9	C5
C8P0	C4
C8P1	C4
C8P2	C4
C8P3	C4
C8P4	C4
C8P5	C4
IC	
IC87	D3
CONNECTOR	
J8H3	E2
COILS	
L8J2	E4
L8J3	C5
RESISTORS	
R8L1	D3
R8L2	D4
R8L3	D4
R8L5	E4
R8L6	D5
R8L7	C4
R8L8	C4
R8L9	C4
R8M0	C4
R8M1	C4
R8M2	C3
R8M3	D2

POWER SUPPLY P.C.B DRAWING PS01

"Inserted components are dependent on the set type"


POWER CIRCUIT SECTION
REF.NO.100 SERIES
HOT
CMK-77X 94V-0
T1.6AH
250V
CAUTION REPLACE ONLY WITH THE SAME TYPE FUSE
YK339V021-0
(PS01)
C101
C102
C103
C104
C105
C106
R101
L101
J101
J102
J103
J104
D101
D107
C115
C116
C117
R131
R132
R133
R134
R135
R136
R137
R138
R140
R141
Q102
Q107
IC01
IC02
T101
L103
L104
Q105
Q106
Z104
PR01
R158
A
B
1
2
3
4

CAPACITORS

C101	B2
C102	B2
C103	A1
C104	A2
C105	A1
C106	A2
C115	A2
C116	A2
C117	A2
C118	A3
C119	A3
C120	A3
C121	A3
C122	A3
C123	A4
C125	A3
C126	B3
C127	A3
C128	B3
C133	A4
C134	B3
C135	B3
C136	B2
C137	B2
C138	B2
C139	B2
C140	B2

DIODES

D101	A2
D104	B2
D107	A2
D108	A3
D109	A3
D110	A3
D111	B3
D115	B3
D116	B3
D117	A3

IC's

IC01	B2
IC02	B3

CONNECTORS

J101	B1
J102	B1
J103	B1
J104	A4

COILS

L101	B1
L103	A3
L104	B3

OTHERS

PR01	A3
T101	A3

TRANSISTORS

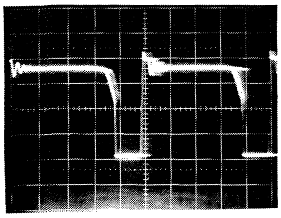
Q102	B2
Q105	B3
Q106	B3
Q107	B2

RESISTORS

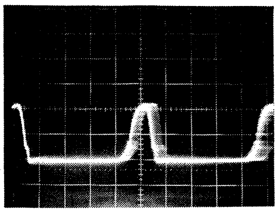
R101	A1
R113	A3
R114	A3
R123	A4
R124	B3
R125	B3
R126	B3
R127	A3
R128	A3
R131	A2
R132	B2
R133	A2
R134	B2
R135	B2
R136	B2
R137	A2
R138	B2
R139	B2
R140	A2
R141	B2
R142	B2
R143	B2
R144	B2
R145	B2
R146	B2
R151	B3
R153	B3
R154	B3
R155	B3
R156	B3
R157	B3
R158	A4

ZENERS

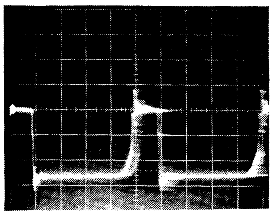
Z102	B3
Z103	B3
Z104	A3
Z105	A4



(60) T101 Pin2
100V/Div. 2μsec/Div.



(61) Q107 G
10V/Div. 2μsec/Div.



(62) T101 Pin6
10V/Div. 2μsec/Div.

CAPACITORS	
C101	B1
C102	B1
C103	B1
C104	B2
C105	B1
C106	B2
C115	B4
C116	B4
C117	B3
C118	B6
C119	B6
C120	B5
C121	B6
C122	B6
C123	B6
C125	C5
C126	C6
C127	C6
C128	C6
C133	D7
C134	D7
C135	D5
C136	B4
C137	C3
C138	C4
C139	C4
C140	C4

DIODES	
D101	B3
D104	C4
D107	B4
D108	B5
D109	B5
D110	C5
D111	C5
D115	D6
D116	D6
D117	B5

FUSE	
F101	B1

IC's	
IC01	C5
IC02	D5

CONNECTORS	
J101	B1
J102	B1
J103	B1
J104	B7

COILS	
L101	B2
L103	B6
L104	C6
L105	C6

TRANSISTORS	
Q102	C3
Q105	C6
Q106	D6
Q107	C3

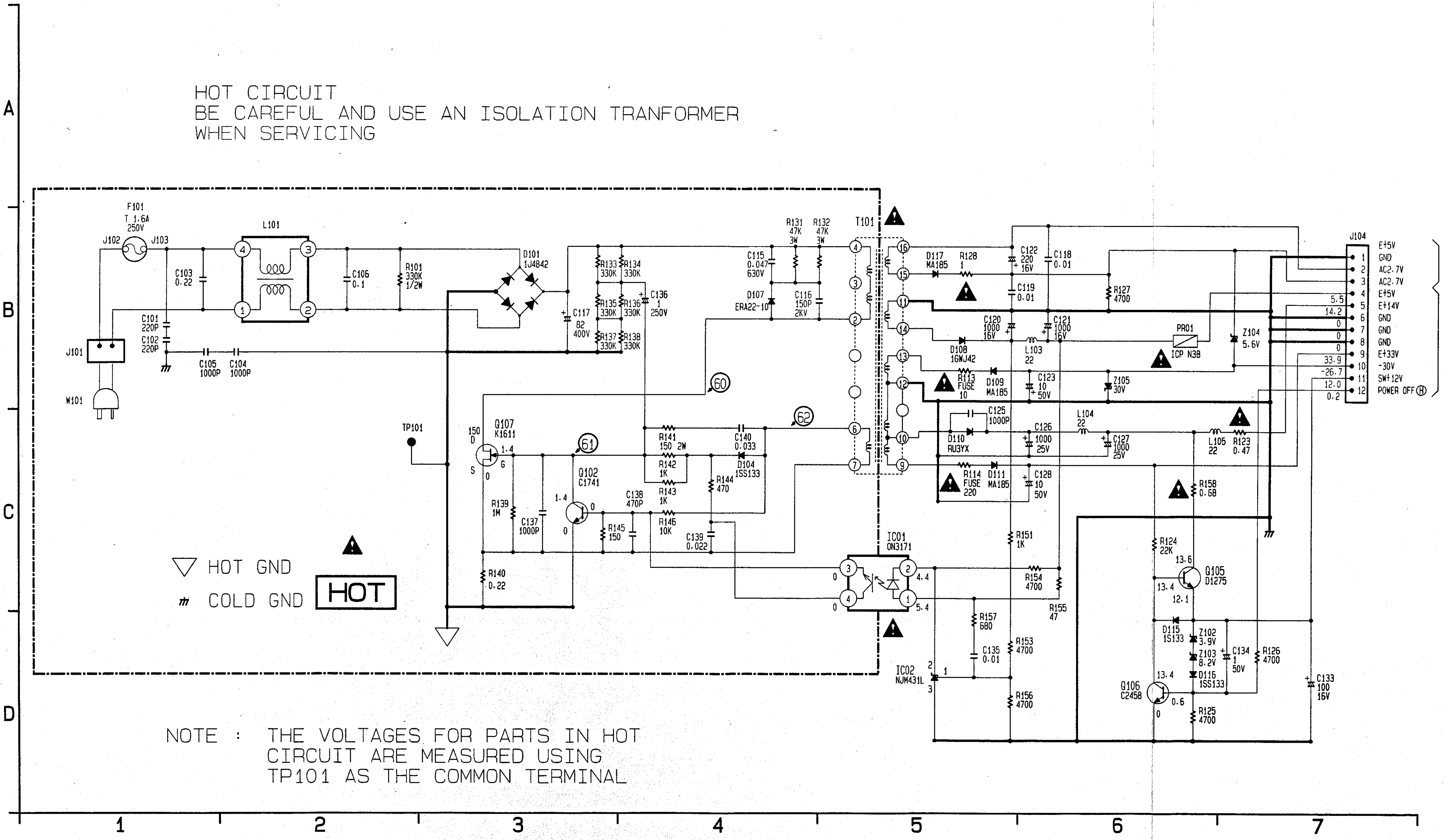
RESISTORS	
R101	B2
R113	B5
R114	C5
R123	C7
R124	C6
R125	D6
R126	D7
R127	B6
R128	B5
R131	B4
R132	B5
R133	B3
R134	B4
R135	B3
R136	B4
R137	B3
R138	B4
R139	C3
R140	C3
R141	C4
R142	C4
R143	C4
R144	C4
R145	C3
R146	C4
R151	C6
R153	D6
R154	C6
R155	C6
R156	D6
R157	D5
R158	C6

OTHERS	
W101	B1
PR01	B6
T101	B5

ZENERS	
Z102	D6
Z103	D6
Z104	B7
Z105	B6

POWER SUPPLY SCHEMATIC DIAGRAM (PS) PSO1

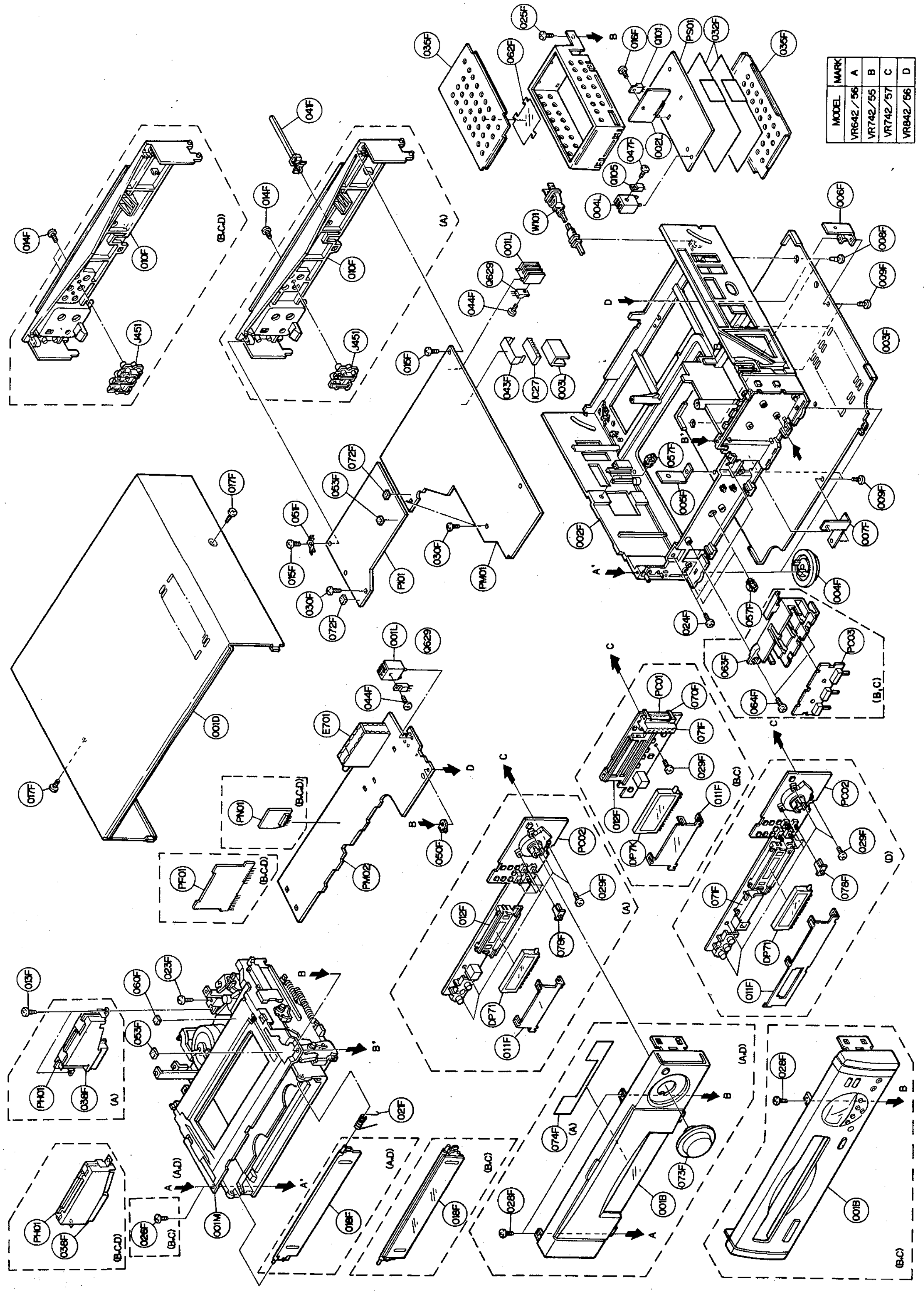
HOT CIRCUIT
BE CAREFUL AND USE AN ISOLATION TRANFORMER
WHEN SERVICING


A
B
C
D
1
2
3
4
5
6
7
F101
T 1.6A
250V
J102
J103
L101
C103
0.22
C106
0.1
R101
330K
1/2W
D101
1J4B42
C101
220P
C102
220P
J101
C105
1000P
C104
1000P
W101
R133
330K
R134
330K
R135
330K
R136
330K
R137
330K
R138
330K
C117
82
400V
C136
1
250V
C115
0.047
630V
D107
ERA22-10
C116
150P
2KV
R131
47K
3W
R132
47K
3W
T101
TP101
Q107
K1611
150
D
S
G
1.4
0
R139
1M
C137
1000P
Q102
C1741
1.4
0
C138
470P
R145
150
R141
150 2W
R142
1K
R143
1K
R146
10K
C140
0.033
D104
1SS133
R144
470
C139
0.022
60
61
62
R140
0.22
IC01
ON3171
4.4
5.4
IC02
NJM431L
R157
680
C135
0.01
D117
MA185
R128
1
C122
220
16V
C118
0.01
C119
0.01
R127
4700
C120
1000
16V
C121
1000
16V
D108
1GWJ42
L103
22
PR01
ICP N38
Z104
5.6V
R113
FUSE
10
D109
MA185
C123
10
50V
Z105
30V
C125
1000P
D110
RU3YX
C126
1000
25V
L104
22
C127
1000
25V
L105
22
R123
0.47
R114
FUSE
220
D111
MA185
C128
10
50V
R158
0.68
R151
1K
R154
4700
R155
47
R153
4700
R156
4700
R124
22K
13.6
Q105
D1275
13.4
12.1
D115
1S133
Z102
3.9V
Z103
8.2V
D116
1SS133
C134
1
50V
R126
4700
Q106
C2458
13.4
0.6
R125
4700
C133
100
16V
J104
E+5V
GND
AC2.7V
AC2.7V
E+5V
E+14V
GND
GND
GND
E+33V
-30V
SW+12V
POWER OFF (H)
5.5
14.2
0
0
0
33.9
-26.7
12.0
0.2
HOT GND
COLD GND
HOT

NOTE : THE VOLTAGES FOR PARTS IN HOT CIRCUIT ARE MEASURED USING TP101 AS THE COMMON TERMINAL

1. CABINET EXPLODED VIEW

MODEL	MARK
VR642/56	A
VR742/55	B
VR742/57	C
VR842/56	D

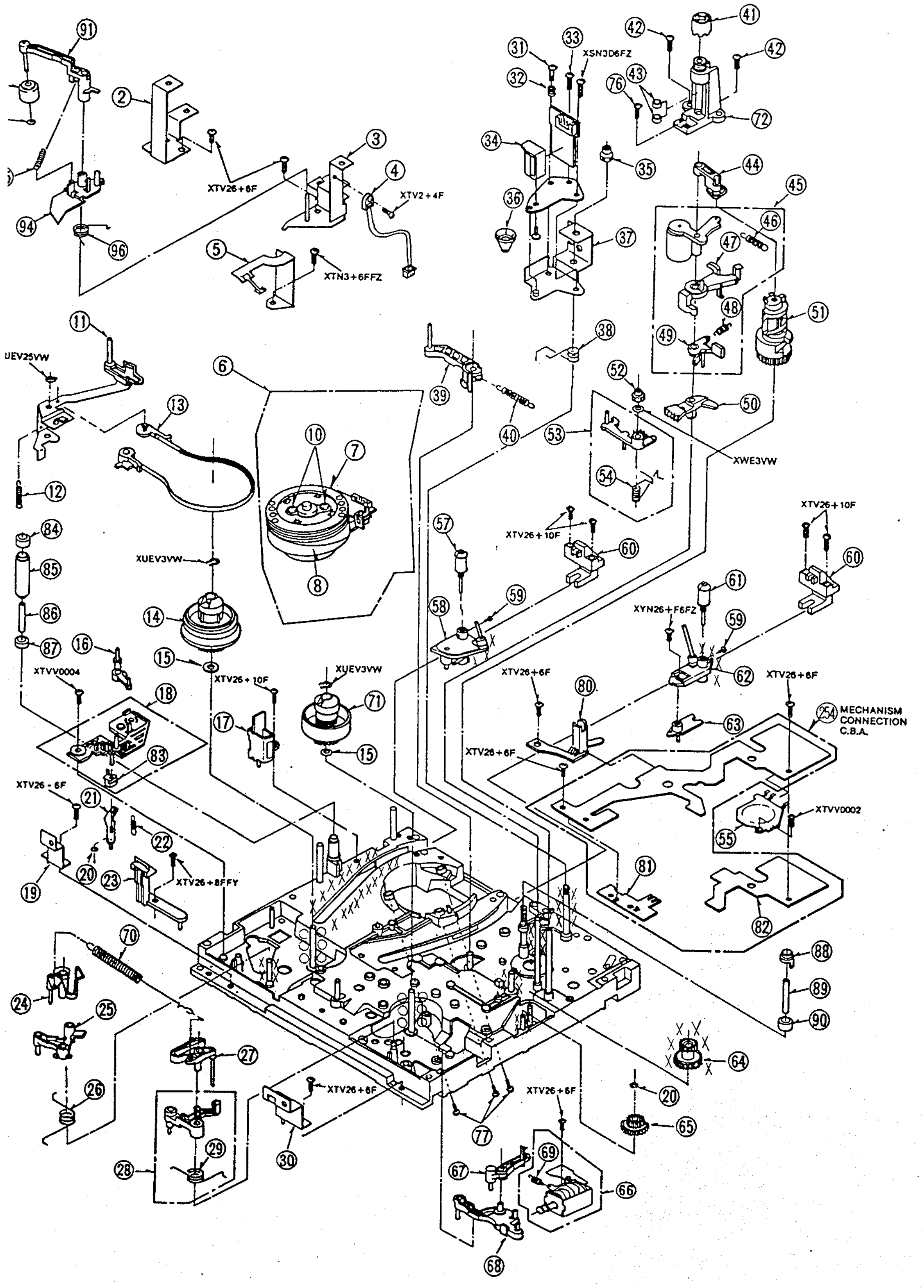

001D
001B
001M
001L
002L
003L
004L
005F
006F
007F
009F
010F
011F
012F
014F
015F
017F
018F
019F
020F
022F
023F
024F
025F
026F
028F
029F
030F
032F
035F
036F
043F
044F
047F
050F
051F
053F
057F
060F
062F
063F
064F
065F
070F
071F
072F
073F
074F
078F
079F
082F
C27
E701
J451
W101
P101
PM01
PM02
PS01
PH01
PF01
PC01
PC02
PC03
PN01
DP71
A
A'
B
B'
C
D
(A)
(B,C)
(A,D)
(B,C,D)
(D)

2. EXPLODED VIEW OF THE TAPE DECK

Exploded view of the tapedeck 1

Note: Lubrication Points: when the marked parts are replaced, apply the recommended lubricants for better maintenance of the unit.

Mark	Lubricant	Availability	Part No.
XXX	Molytone Grease	Avail. from factory	0017 145 50019
OOO	Spindle Oil	Avail. from factory	0017 141 70001


XTV26+6F
XTV2+4F
XTN3+6FFZ
XSN3D6FZ
UEV25VW
XUEV3VW
XWE3VW
XTV26+10F
XYN26+F6FZ
XTVV0004
XTV26+8FFY
XTV26-6F
XTVV0002
MECHANISM CONNECTION C.B.A.
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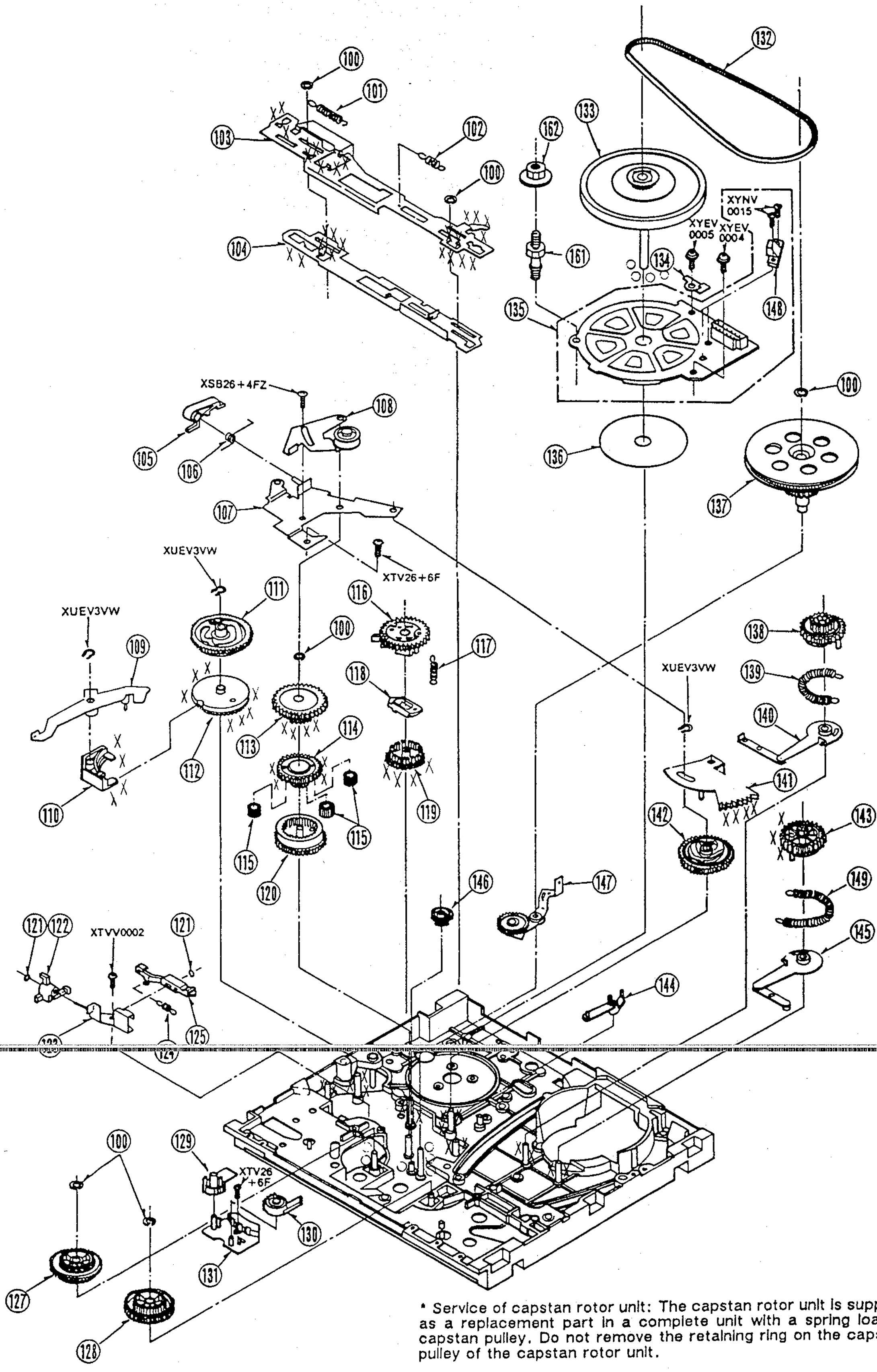
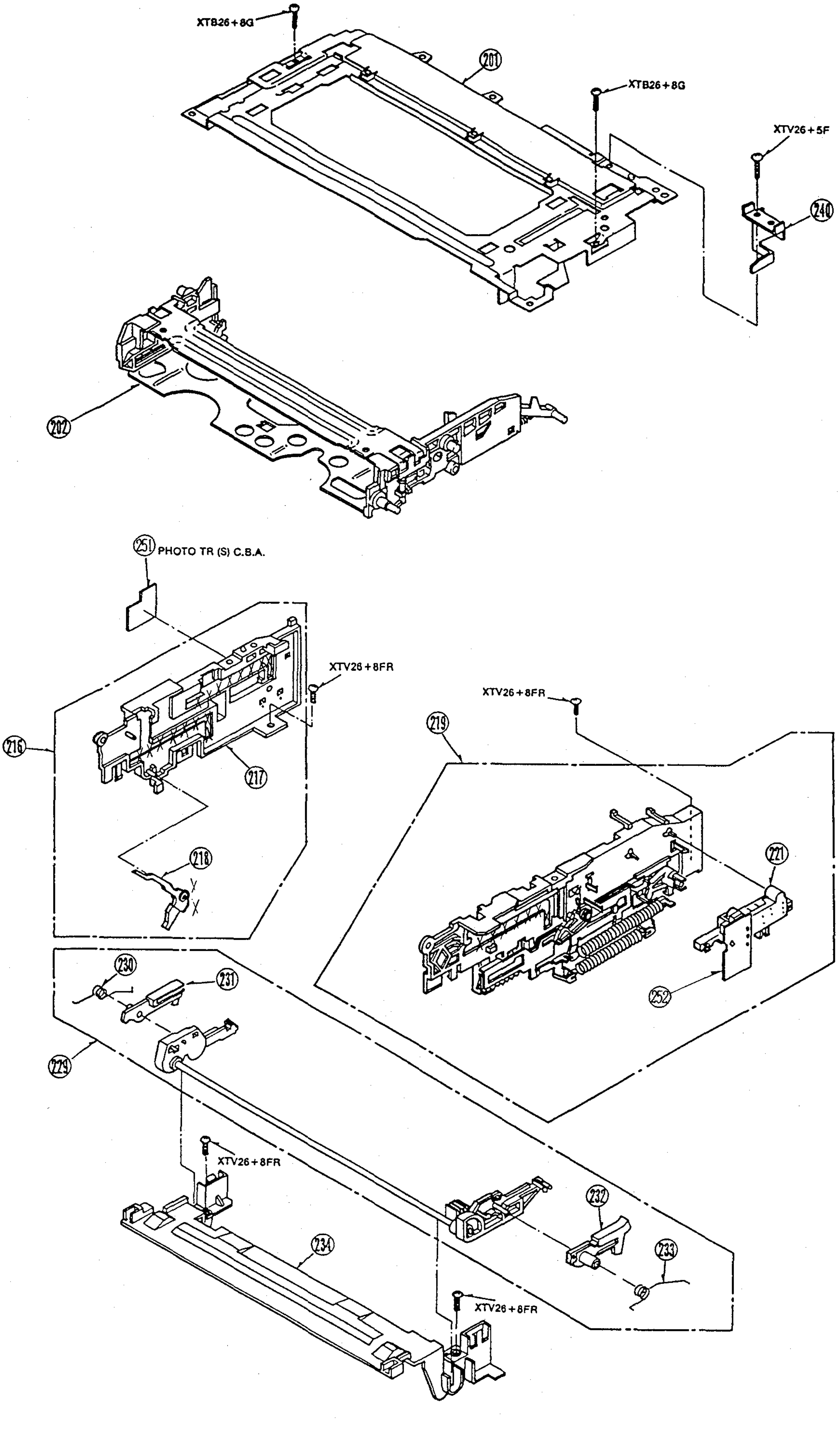
96

Exploded view of the tapedeck 2


100
101
103
102
100
104
132
133
162
161
XYNV 0015
XYEV 0005
XYEV 0004
134
135
148
100
136
137
XSB26+4FZ
105
106
108
107
XUEV3VW
XTV26+6F
111
116
100
117
118
XUEV3VW
109
112
113
114
119
110
115
115
120
138
139
XUEV3VW
140
141
142
143
149
145
146
147
144
121
122
XTVV0002
121
123
124
125
100
129
XTV26 +6F
130
131
127
128

* Service of capstan rotor unit: The capstan rotor unit is supplied as a replacement part in a complete unit with a spring loaded capstan pulley. Do not remove the retaining ring on the capstan pulley of the capstan rotor unit.

Exploded view of the tapedeck 3


XTB26+8G
201
XTB26+8G
XTV26+5F
240
202
251 PHOTO TR (S) C.B.A.
XTV26+8FR
XTV26+8FR
219
216
217
218
221
252
230
231
229
XTV26+8FR
232
234
233
XTV26+8FR

Set

PANEL

001B	4822 443 41248	FRONT (K) (VR642)
001B	4822 443 41253	FRONT (K) : F (VR742/55)
001B	4822 443 41252	FRONT (K) : F (VR742/57)
001B	4822 443 41254	FRONT (K) (VR842)
002B	4822 443 41249	FRONT PANEL: F(VR742)
002B	4822 443 41251	FRONT PANEL (VR842)
003B		FUNCTION BUTTON A:F
004B		OPERATION BUTTON :F (VR742)
004B		POWER BUTTON : SHUTTLE (VR842)
005B	4822 443 63894	EJECT BUTTON : F (VR742)
005B	4822 443 63898	FRONT LID (VR842)
006B	4822 450 62067	IR WINDOW : F
007B	4822 450 61867	FL WINDOW : F (VR742)
007B	4822 454 21086	ESCUTCHEON :LID (VR842)
008B		FUNCTION BUTTON B:F (VR742)
008B	4822 403 70901	BRACKET (K) A (VR842)
009B	4822 454 40107	BADGE (VR742)
009B	4822 403 70896	BRACKET A (VR842)
010B	4822 450 62068	LED WINDOW :F (VR742)
010B	4822 535 93398	SHAFT (VR842)
011B	4822 403 70902	BRACKET (K) B (VR842)
012B	4822 403 70897	BRACKET B (VR842)
013B	4822 535 93398	SHAFT (VR842)
014B	4822 492 71338	LEAF SPRING :HINGE (VR842)
017B	4822 403 70898	BRACKET L (VR842)
018B	4822 403 70899	BRACKET R (VR842)

CABINET PARTS

001D	4822 443 63518	TOP COVER
002F	4822 464 50879	FRAME (VR742/55)
002F	4822 464 50965	FRAME (VR842)
003F	4822 443 51181	BOTTOM
004F	4822 462 41653	FOOT
005F	4822 403 53985	EARTH BRACKET L
006F	4822 403 53986	EARTH BRACKET R
008F	4822 462 41343	RUBER FOOT
010F		REAR HOLDER (VR642)
010F		REAR HOLDER (VR742/55)
010F		REAR HOLDER (VR742/57)
010F		REAR HOLDER (VR842)
011F	4822 443 63889	DISP COVER (VR642)
011F	4822 443 63895	DISP COVER (VR842)
012F	4822 256 92035	DISP HOLDER
018F	4822 443 63901	CASS LID K F (VR742/55)
018F	4822 443 63899	CASS LID K F (VR742/57)
018F	4822 443 63893	CASS LID SHUTTLE (VR842)
019F	4822 443 63897	CASS LID :F (VR742/55)
019F	4822 443 63896	CASS LID :F (VR742/57)
020F	4822 403 70541	CASS GUIDE (VR742)
021F	4822 492 70395	CASS LID SPRING
032F	4822 466 92434	INSULATOR FOR SOPS
034F	4822 443 62883	SOPS A
035F	4822 443 62884	SOPS B
037F	4822 443 63535	HEAD AMP A (VR642)
037F	4822 443 63622	HEAD AMP A (VR842, VR742)
038F	4822 443 63536	HEAD AMP B (VR642)
038F	4822 443 63619	HEAD AMP B (VR842, VR742)
041F	4822 401 11216	AC CORD CLAMPER
043F	4822 403 53715	BRACKET FOR HEATSINK
050F	4822 403 53984	TERMINAL
051F	4822 492 70825	LEAF SPRING
057F	4822 401 11323	CODE CLAMPER FOR FRAME
063F		HOLDER FOR SW (VR 742)
065F		LED HOLDER (VR742)
066F	4822 454 21085	ESCUTCHEON :LED (VR742)
067F		SHEILD CASE :I/O
068F		SHIELD CASE :NICAM (VR842, VR742)
070F		LED HOLDER (VR842)
071F	4822 454 21088	ESCUTCHEON :LED (VR842)
073F	4822 413 41778	KNOB : SHUTTLE (VR842)
078F	4822 413 31731	KNOB : SW (VR842)
079F		INSULATOR :SOPS
080F		CLAMPER :SOPS
001L	4822 511 61011	HEAT SINK:DE PCB
002L	4822 511 61012	HEAT SINK:SOPS
003L	4822 511 61014	HEAT SINK
004L		HEAT SINK:SOPS

PACKING

001T	4822 736 53319	USERS MANUAL (VR642)
001T	4822 736 53322	USERS MANUAL (VR742/55)
001T	4822 736 53321	USERS MANUAL (VR742/57)
001T	4822 736 53323	USERS MANUAL (VR842)
002T		STICKER (VR642)
015T		ARD :LID (VR842)
001Z	4822 218 30695	REMOCON
002Z	4822 321 23706	RF CABLE
003Z	4822 138 10106	BATTERY RGP 1.5V
004Z		RCA CABLE 3PIN TYPE (VR842, VR742/57)
005Z	4822 267 31133	AC ADAPTOR

Tape deck

001M	4822 443 30773	MECHA K (VR642)
001M	4822 691 20743	MECHA K (VR842, VR742)
001N	4822 403 70006	MAIN HOLDER UNIT
002N	4822 403 53564	HA MOUNT ANGLE(L)
003N	4822 403 70512	HA MOUNT ANGLE(R)
004N	4822 255 41254	HEAT SINK PLATE
005N	4822 466 82418	EARTH PLATE UNIT
006N	4822 691 20499	CYLINDER UNIT
007N	4822 691 20572	UPPER CYLINDER UNIT
008N	4822 403 70001	RT TERMINAL
009N	4822 502 13606	UPPER CYLINDERSET
010N	4822 466 82638	CYLINDER SHIELD PLATE
011N	4822 403 53614	TENSION ARM (1) UNIT
012N	4822 492 32912	TENSION SPRING
013N	4822 401 11322	TENSION BAND UNIT
014N	4822 528 10772	REEL TABLE UNIT
015A	4822 532 52058	REEL WASHER 0.3MM
015B	4822 532 52057	REEL WASHER 0.2MM
015C	4822 532 52055	REEL WASHER 0.5MM
016N	4822 403 53615	RELEASE ARM (A) UNIT
017N	4822 249 20076	FE HEAD
018N	4822 403 53605	TENS ARM BASE (1) UNIT
019N	4822 403 53562	MOUNT ANGLE (L)
020N	4822 532 52054	CUT WASHER
021N	4822 403 53605	RELEASE ARM (B) UNIT
022N	4822 403 53605	TENSION RELEASE SPRING
023N	4822 271 30685	SAFETY SW
024N	4822 403 53938	SUPPLY MAIN BRAKE UNIT
025N	4822 403 53988	SOFT BRAKE (1) UNIT
026N	4822 403 53622	SOFT BRAKE SPRING
027N	4822 403 53989	MAIN BRAKE UNIT
028N	4822 403 53622	SOFT BRAKE UNIT
029N	4822 492 42295	SOFT BRAKE SPRING
030N	4822 403 53563	MOUNT ANGLE (R)
031N	4822 502 13168	ADJUST SCREW
032N	4822 492 52043	ADJUST SPRING
033N	4822 502 11831	AZIMUTH ADJUST SCREW
034N	4822 249 1-395	A/C HEAD
035N	4822 505 10945	M4 NYLON NUT
036N	4822 505 11022	ADJUST NUT
037N	4822 403 53987	HEAD BASE UNIT
038N	4822 492 42297	A/C HEAD SPRING
039N	4822 403 53974	LOARDING ARM (1) UNIT
040N	4822 492 32907	SUB POST SPRING
041N	4822 502 13171	THRUST SCREW UNIT
042N	4822 502 13167	T.H.M. SCREW
043N	4822 532 52053	OIL SEAL
044N	4822 403 53596	PINCH CAM CAP
045N	4822 528 81371	PRESSURE ROLLER UNIT
046N	4822 492 33143	PIN PRESSURE SPRING
047N	4822 403 53975	PINCH PRESSURE ARM
048N	4822 528 81245	PINCH PRESS ARM SPRING
049N	4822 403 53583	PINCH LIFT ARM
050N	4822 522 32859	P5 PULL OUT SECT GEAR
051N	4822 522 32525	PINCH CAM
052N	4822 505 10743	M3 NYLON NUT
053N	4822 403 53609	P5 UNIT
054N	4822 492 70088	P5 SPRING
055N	4822 276 12496	MODE SW
057N	4822 528 90699	ROLLER POST UNIT
058N	4822 528 90699	INCLIND BASE(S)(1)UNIT
059N	4822 502 11831	ROLLER POST SCREW
060N	4822 403 53571	POST STOPPER
061N	4822 403 53731	ROLLER POST UNIT
062N	4822 403 53973	INCLIND BASE(T)(1)UNIT
063N	4822 466 82389	INCLIND ADJ PLATE UNIT
064N	4822 522 32529	PINCH SPEED DOWN DEAR
065N	4822 522 32512	CONNECTION GEAR
066N	4822 526 20165	SOLENOID UNIT
067N	4822 403 53603	KICK ROD UNIT
068N	4822 403 53972	SOLENOID LEVER(1)UNIT
069N	4822 526 20151	KICK ROD SPRING
070N	4822 492 33144	MAIN BRAKE SPRING
071N	4822 528 10773	TAKE UP REEL UNIT
072N	4822 691 20483	HOUSING UNIT
076N	4822 502 13169	HOUSING SCREW
077N	4822 502 13243	CYLINDER SCREW
080N	4822 255 41082	LED HOLDER
081N	4822 403 53979	REINFORCEMENT PLATE(F)
082N	4822 403 53981	REINFORCEMENT PLATE(R)
083N	4822 492 70087	LEAF SPRING
084N	4822 530 70449	SUPPLY UPPER LIMITER
085N	4822 528 81369	SUPPLY ROLLER
086N	4822 535 80816	P1 COLLAR
087N	4822 532 52193	SUPPLY ROLLER LIMITER
088N	4822 532 52194	P4 UPPER LIMITER
089N	4822 532 21402	P4 SLEEVE
090N	4822 532 52195	P4 LOWER LIMITER
091N	4822 403 70507	CLEANER ARMA(2)UNIT
092N	4822 528 90833	CLEANER ROLLER UNIT
093N	4822 532 12121	SNAP WASHER A
094N	4822 403 70506	CLEANER ARM B
095N	4822 492 70996	CLEANER ARM SPRING A
096N	4822 492 70997	CLEANER ARM SPRING B
100N	4822 532 52192	CUT WASHER
101N	4822 492 32917	TAKE UP ARM SPRING
102N	4822 492 70085	MAIN LEVER SPRING
103N	4822 403 53992	MAIN LEVER (1) UNIT
104N	4822 403 53991	SUB LEVER
105N	4822 403 53976	SS BRAKE ARM UNIT
106N	4822 492 42303	SS BRAKE SPRING
107N	4822 403 53982	SS BRAKE BASE(1) UNIT
108N	4822 403 53993	TENSION ROLLER UNIT
109N	4822 403 53618	ARM FOLLOWER ARM UNIT
110N	4822 403 53581	DETENT ARM
111N	4822 522 32861	MAIN CAM GEAR
112N	4822 522 32516	SUB CAM GEAR
113N	4822 522 32519	CENTER GEAR
114N	4822 522 32526	RETAINER GEAR
115N	4822 522 32526	PLANET GEAR
116N	4822 528 30386	CLUTCH DISK
117N	4822 522 32792	CLUTCH SPRING
118N	4822 522 32792	LOCK SLIDE GEAR
119N	4822 522 32513	DRIVE DISK
120N	4822 522 32515	RING GEAR
121N	4822 532 52052	CUT WASHER
122N	4822 403 53578	CHANGE LEVER
123N	4822 403 53599	RELEASE LEVER (1) UNIT
124N	4822 403 53579	RELEASE SPRING
125N	4822 403 53579	RELEASE LEVER
127N	4822 522 32532	TAKE UP REEL GEAR UNIT
128N	4822 522 32527	SUPPLY REEL GEAR
129N	4822 403 53577	RETURN LEVER (R)

Tape deck

130N	4822 403 53576	RETURN LEVER (L)
131N	4822 403 53572	STOPPER BASE
132N	4822 358 30881	TIMING BELT
133N	4822 528 81368	ROTOR UNIT
134N	4822 403 53983	ROTOR STOPPER
135N	4822 691 20573	STATOR UNIT
136N	4822 466 92285	SUB PLATE
137N	4822 528 81246	CENTER PULLEY UNIT
138N	4822 522 32862	LOADING GEAR (T)
139N	4822 492 32923	LOADING SPRING (T)
140N	4822 403 53612	LOADING ARM(T)(1) UNIT
141N	4822 403 53978	SECTOR GEAR UNIT
142N	4822 522 32528	LOADING CAM GEAR
143N	4822 522 32523	LOADING GEAR (S)
144N	4822 403 53575	PLAY CONTROL ARM
145N	4822 403 53611	LOADING ARM (S)(1)UNIT
146N	4822 522 32863	INTERMEDIATE GEAR
147N	4822 403 53977	PLAY ARM UNIT
148N	4822 249 20075	FG HEAD
149N	4822 492 32918	LOADING SPRING (S)
150N	4822 502 13244	STATOR SPACER SCREW
151N	4822 505 10957	STATOR UNIT
201N	4822 443 30737	TOP PLATE
202N	4822 256 91536	CASSTTE HOLDER UNIT
216N	4822 443 40718	SIDE PLATE (L) UNIT
217N	4822 443 40716	SIDE PLATE (L)
218N	4822 403 53586	OPENER LEVER
219N	4822 443 41161	SIDE PLATE (R) UNIT
221N	4822 277 21383	SLIDE SW UNIT
229N	4822 535 92528	MAIN SHAFT UNIT
230N	4822 492 42298	SUB WIPER SPRING
231N	4822 403 53584	SUB WIPER ARM (L)
232N	4822 403 53585	SUB WIPER ARM (R)
233N	4822 492 42306	SUB WIPER SPRING (R)
234N	4822 403 53626	CASSETTE GUIDE
236N	4822 492 70563	BLINDER SPRING
251N	4822 214 32532	PHOTO TR(S)CBA
252N	4822 214 32552	PHOTO TR(T) CBA
254N	4822 214 32912	MECHA CONNECTION CBA

Linear Audio

CAPACITORS

C401	4822 122 33795	4700PF (VR642)
C402	4822 124 21894	10µF 16V (VR642)
C403	4822 124 21894	10µF 16V (VR642)
C404	4822 122 40586	0.01µF (VR642)
C405	4822 124 21894	10µF 16V (VR642)
C406	4822 124 21894	10µF 16V (VR642)
C407	4822 122 40586	0.01µF (VR642)
C408	5322 121 42386	0.1µF ±5% 50V (VR642)
C409	5322 121 42386	0.1µF ±5% 50V (VR642)
C410	4822 124 21894	10µF 16V (VR642)
C411	5322 121 42386	0.1µF 50V (VR642)
C412	4822 122 33795	4700PF (VR642)
C413	4822 122 40586	0.01µF (VR642)
C414	5322 122 32818	2200PF ±10% 50V (VR642)
C415	4822 124 21894	10µF 16V (VR642)
C416	4822 122 33639	1000PF (VR642)
C417	4822 124 21894	10µF 16V (VR642)
C418	4822 122 31211	100PF 500V
C419	4822 121 43379	0.015µF 100V
C420	4822 124 21894	10µF 16V
C421	4822 122 33639	1000PF
C422	4822 122 40586	0.01µF
C423	4822 122 33639	1000PF
C424	4822 122 31178	680PF ±10% 50V (VR642)
C425	4822 122 40586	0.01µF (VR642)
C426	4822 122 33795	4700PF (VR642)

IC

IC41	4822 209 32248	BA7790LS (VR642)

CONNECTORS

J410	4822 265 41299	11PIN
J411	4822 267 40823	6PIN
J412	4822 265 40796	7PIN (VR842)
J414	4822 265 30777	3PIN (VR742)

COILS

L401	4822 157 53914	OSC COIL
L402	4822 157 62252	22µH
L403	4822 152 20643	10MH (VR642)
L404	4822 157 60452	330µH (VR642)

TRANSISTOR

Q401	4822 130 60839	2SC2458 (Y OR GR)

RESISTORS

R401	4822 116 52176	10 Ω
R402	4822 116 52224	470 Ω (VR642)
R403	4822 052 10101	100 Ω (VR642)
R404	4822 116 52271	33 kΩ (VR642)
R405	4822 050 11002	1 kΩ (VR642)
R406	4822 116 52283	4.7 kΩ (VR642)
R407	4822 116 52283	4.7 kΩ (VR642)
R408	4822 116 52284	47 kΩ (VR642)
R409	4822 116 52224	470 Ω (VR642)
R410	4822 116 52284	47 kΩ (VR642)
R411	4822 116 52296	6.8 kΩ (VR642)
R412	4822 050 11002	2.2 kΩ (VR642)
R414	4822 116 52284	47 kΩ (VR642)
R416	4822 116 52269	1 kΩ (VR642)
R417	4822 116 52235	1 MΩ (VR642)
R418	4822 116 52256	2.2 kΩ (VR642)
R419	4822 116 52284	47 kΩ (VR642)
R420	4822 116 52233	10 kΩ (VR642)
R421	4822 116 52272	330 kΩ (VR642)
R422	4822 116 52296	6.8 kΩ (VR642)
R423	4822 116 52215	220 Ω (VR642)
R424	4822 116 52284	47 kΩ (VR642)
R425	4822 116 52284	47 kΩ (VR642)
R426	4822 100 11471	100 kΩ TRIMMING
R427	4822 116 52244	15 kΩ
R428	4822 116 52224	470 Ω (VR642)

Display Control

CAPACITORS

C7D0	4822 124 21894	10µF 16V (VR842, VR642)
C7D1	4822 122 40588	0.022µF (VR842, VR642)
C7D2	4822 124 21736	1µF 50V (VR842)
C7D3	4822 124 21736	1µF 50V (VR842)
C7D4	4822 124 21894	10µF 16V (VR842)
C7D5	4822 124 21894	10µF 16V (VR842)
C7D6	4822 122 40588	0.022µF (VR842)
C7D7	4822 124 22047	1000µF 6.3V (VR842)
C7E0	4822 124 21894	10µF 16V (VR742)
C7E1	4822 122 40588	0.022µF (VR742)
C7E2	4822 124 21736	1µF 50V (VR742)
C7E3	4822 124 21736	1µF 50V (VR742)
C7E4	4822 124 21894	10µF 16V (VR742)
C7E5	4822 124 21894	10µF 16V (VR742)
C7E6	4822 122 40588	0.022µF (VR742)
C7E7	4822 124 22047	1000µF 6.3V (VR742)

DIODES

D7D3	4822 130 32778	1SS133 (VR842)
D7D5	4822 130 32778	1SS133 (VR842)
D7D6	4822 130 32778	1SS133 (VR842, VR642)
D7D7	4822 130 32778	1SS133 (VR842)
D7D9	4822 130 32778	1SS133 (VR842)
D7E2	4822 130 32778	1SS133 (VR842, VR642)
D7E3	4822 130 32778	1SS133 (VR842, VR642)
D7E4	4822 130 32778	1SS133 (VR842, VR642)
D7E5	4822 130 32778	1SS133 (VR842, VR642)
D7E6	4822 130 32778	1SS133 (VR842, VR642)
D7E7	4822 130 32778	1SS133 (VR842, VR642)
D7E8	4822 130 32778	1SS133 (VR842, VR642)
D7E9	4822 130 32778	1SS133 (VR842, VR642)
D7F0	4822 130 32778	1SS133 (VR842, VR642)
D7F1	4822 130 32778	1SS133 (VR842, VR642)
D7F7	4822 130 82991	SLR-34MT70F138 GREEN (VR842)
D7F8	4822 130 82991	SLR-34MT70F138 GREEN (VR842)
D7F9	4822 130 82991	SLR-34MT70F138 GREEN (VR842)
D7H0	4822 130 82991	SLR-34MT70F138 GREEN (VR842)
D7H1	4822 130 82725	SLR-34VC70F130 RED (VR842)
D7H2	4822 130 82725	SLR-34VC70F130 RED (VR842)
D7H3	4822 130 82725	SLR-34VC70F130 RED (VR842)
D7H4	4822 130 82991	SLR-34MT70F138 GREEN (VR842)
D7H5	4822 130 82991	SLR-34MT70F138 GREEN (VR842)
D7H6	4822 130 82991	SLR-34MT70F138 GREEN (VR842)
D7H7	4822 130 82991	SLR-34MT70F138 GREEN (VR842)
D7H8	4822 130 82725	SLR-34VC70F130 RED (VR842)
D7H9	4822 130 82725	SLR-34VC70F130 RED (VR842)
D7J0	4822 130 82725	SLR-34VC70F130 RED (VR842)
D7J1	4822 130 32778	1SS133 (VR842, VR642)
D7K0	4822 130 32778	1SS133 (VR742/57)
D7K4	4822 130 32778	1SS133 (VR742/55)
D7K5	4822 130 32778	1SS133 (VR742)
D7K7	4822 130 32778	1SS133 (VR742/55)
D7K9	4822 130 32778	1SS133 (VR742)
D7L2	4822 130 32778	1SS133 (VR742)
D7L3	4822 130 32778	1SS133 (VR742)
D7L4	4822 130 32778	1SS133 (VR742)
D7L5	4822 130 32778	1SS133 (VR742)
D7L6	4822 130 32778	1SS133 (VR742)
D7L7	4822 130 32778	1SS133 (VR742)
D7L8	4822 130 32778	1SS133 (VR742)
D7L9	4822 130 82991	SLR-34MT70F138 GREEN (VR742)
D7M0	4822 130 82991	SLR-34MT70F138 GREEN (VR742)
D7M1	4822 130 82991	SLR-34MT70F138 GREEN (VR742)
D7M2	4822 130 82991	SLR-34MT70F138 GREEN (VR742)
D7M3	4822 130 82725	SLR-34VC70F130 RED (VR742)
D7M4	4822 130 82725	SLR-34VC70F130 RED (VR742)
D7M5	4822 130 82725	SLR-34VC70F130 RED (VR742)
D7M6	4822 130 82991	SLR-34MT70F138 GREEN (VR742)
D7M7	4822 130 82991	SLR-34MT70F138 GREEN (VR742)
D7M8	4822 130 82991	SLR-34MT70F138 GREEN (VR742)
D7M9	4822 130 82991	SLR-34MT70F138 GREEN (VR742)
D7N0	4822 130 82725	SLR-34VC70F130 RED (VR742)
D7N1	4822 130 82725	SLR-34VC70F130 RED (VR742)
D7N2	4822 130 82725	SLR-34VC70F130 RED (VR742)
D7N3	4822 130 32778	1SS133 (VR742)
D7N4	4822 130 32778	1SS133 (VR742)
D7N5	4822 130 32778	1SS133 (VR742)
D7N6	4822 130 32778	1SS133 (VR742)

FL-DISPLAY

DP7D	4822 130 91223	FIP11AM5R FL-DISPLAY (VR842, VR642)
DP7E	4822 130 91223	FIP11AM5R FL-DISPLAY (VR742)

IC's

IC7E	4822 209 31195	BA6822S (VR842)
IC7F	4822 209 31195	BA6822S (VR742)

IR-RECEIVER

IR7D	4822 130 82393	IR-RECEIVER GP1U720R 36KHZ (VR842, VR642)
IR7E	4822 130 82393	IR-RECEIVER GP1U720R 36KHZ (VR742)

CONNECTORS

J7D0	4822 157 63638	40PIN (VR842, VR642)
J7D1	4822 265 30777	3PIN (VR842, VR642)

Display Control

J7D3	4822 265 31076	4PIN (VR842, VR642)
J7E0		38PIN (VR742)
J7E1	4822 265 30777	3PIN (VR742)
J7E2		11PIN (VR742)
J7F0		11PIN (VR742)
J7F1	4822 265 30777	3PIN (VR742)

COILS

L7D0	4822 157 63638	1MH (VR842, VR642)
L7E0	4822 157 63638	1MH (VR742)

TRANSISTORS

Q7D0	4822 130 60107	2SA1048 (Y OR GR) (VR842, VR642)
Q7D1	4822 130 60839	2SC2458 (Y OR GR) (VR842, VR642)
Q7D2	4822 130 60839	2SC2458(VR842, VR642)
Q7D3	4822 130 60107	2SA1048 (Y OR GR) (VR842)
Q7D4	4822 130 60107	2SA1048 (Y OR GR) (VR842)
Q7D5	4822 130 60107	2SA1048 (Y OR GR) (VR842)
Q7D6	4822 130 60107	2SA1048 (VR842)
Q7E0	4822 130 60107	2SA1048 (Y OR GR) (VR742)
Q7E1	4822 130 60107	2SA1048 (Y OR GR) (VR742)
Q7E2	4822 130 60107	2SA1048 (Y OR GR) (VR742)
Q7E3	4822 130 60107	2SA1048 (Y OR GR) (VR742)
Q7E4	4822 130 60839	2SC2458(VR742)
Q7E5	4822 130 60107	2SA1048(VR742)
Q7E6	4822 130 60839	2SC2458(VR742)

RESISTORS

R7D0	4822 116 52175	100 Ω (VR842, VR642)
R7D1	4822 116 52175	100 Ω (VR842, VR642)
R7D2	4822 116 52284	47 kΩ (VR842, VR642)
R7D3	4822 116 52284	47 kΩ (VR842, VR642)
R7D4	4822 116 52244	15 kΩ (VR842, VR642)
R7D5	4822 116 52271	33 kΩ (VR842, VR642)
R7D6	4822 116 52284	47 kΩ (VR842, VR642)
R7D7	4822 116 52284	47 kΩ (VR842, VR642)
R7D8	4822 116 52233	10 kΩ (VR842, VR642)
R7D9	4822 116 52284	47 kΩ (VR842, VR642)
R7E0	4822 052 10109	10 Ω (VR842)
R7E1	4822 116 52269	3.3 kΩ (VR842)
R7E2	4822 100 11373	4.7 kΩ TRIMMING (VR842)
R7E3	4822 116 52284	47 kΩ (VR842)
R7E4	4822 116 52284	47 kΩ (VR842)
R7E5	4822 116 52233	10 kΩ (VR842)
R7E6	4822 116 52257	22 kΩ (VR842)
R7E7	4822 116 52256	2.2 kΩ (VR842)
R7E8	4822 116 52256	2.2 kΩ (VR842)
R7E9	4822 116 52256	2.2 kΩ (VR842)
R7F0	4822 116 52256	2.2 kΩ (VR842)
R7F1	4822 116 52211	150 Ω (VR842)
R7F2	4822 116 52211	150 Ω (VR842)
R7F3	4822 116 52211	150 Ω (VR842)
R7F4	4822 116 52211	150 Ω (VR842)
R7F5	4822 116 52211	150 Ω (VR842)
R7F6	4822 116 52175	100 Ω (VR842, VR642)
R7H0	4822 052 10109	10 Ω (VR742)
R7H1	4822 116 52269	3.3 kΩ (VR742)
R7H2	4822 100 11373	4.7 kΩ TRIMMING (VR742)
R7H3	4822 116 52284	47 kΩ (VR742)
R7H4	4822 116 52284	47 kΩ (VR742)
R7H5	4822 116 52233	10 kΩ (VR742)
R7H6	4822 116 52257	22 kΩ (VR742)
R7H7	4822 116 52256	2.2 kΩ (VR742)
R7H8	4822 116 52256	2.2 kΩ (VR742)
R7H9	4822 116 52256	2.2 kΩ (VR742)
R7J0	4822 116 52256	2.2 kΩ (VR742)
R7J1	4822 116 52211	150 Ω (VR742)
R7J2	4822 116 52211	150 Ω (VR742)
R7J3	4822 116 52211	150 Ω (VR742)
R7J4	4822 116 52211	150 Ω (VR742)
R7J5	4822 116 52211	150 Ω (VR742)
R7J6	4822 116 52175	100 Ω (VR742)
R7J7	4822 116 52175	100 Ω (VR742)
R7J8	4822 116 52284	47 kΩ (VR742)
R7J9	4822 116 52284	47 kΩ (VR742)
R7K0	4822 116 52271	33 kΩ (VR742)
R7K1	4822 116 52244	15 kΩ (VR742)
R7K2	4822 116 52233	10 kΩ (VR742)
R7K3	4822 116 52284	47 kΩ (VR742)
R7K4	4822 116 52284	47 kΩ (VR742)
R7K5	4822 116 52284	47 kΩ (VR742)
R7K6	4822 116 52175	100 Ω (VR742)

SWITCHES

S7D0	4822 276 20508	PUSH SWITCH (VR842, VR642)
S7D1	4822 276 20508	PUSH SWITCH (VR842, VR642)
S7D2	4822 276 20508	PUSH SWITCH (VR842, VR642)
S7D3	4822 276 20508	PUSH SWITCH (VR842, VR642)
S7D4	4822 276 20508	PUSH SWITCH (VR842, VR642)
S7D6	4822 276 20508	PUSH SWITCH (VR842, VR642)
S7D8	4822 276 20508	PUSH SWITCH (VR842, VR642)
S7E0	4822 276 20508	PUSH SWITCH (VR842, VR642)
S7E1		ROTARY SWITCH (VR842, VR642)
S7E2		SLIDE SWITCH (VR842, VR642)
S7E3		SLIDE SWITCH (VR842, VR642)
S7E4		SLIDE SWITCH (VR842, VR642)
S7E5		SLIDE SWITCH (VR842, VR642)
S7F0	4822 276 20508	PUSH SWITCH (VR742)
S7F1	4822 276 20508	PUSH SWITCH (VR742)
S7F2	4822 276 20508	PUSH SWITCH (VR742)
S7F3	4822 276 20508	PUSH SWITCH (VR742)
S7F4	4822 276 20508	PUSH SWITCH (VR742)
S7F5	4822 276 20508	PUSH SWITCH (VR742)
S7F6	4822 276 20508	PUSH SWITCH (VR742)
S7F8	4822 276 20508	PUSH SWITCH (VR742)
S7F9	4822 276 20508	PUSH SWITCH (VR742)
S7H0	4822 276 20508	PUSH SWITCH (VR742)
S7H1		SLIDE SWITCH (VR742)
S7H2		SLIDE SWITCH (VR742)
S7H3		SLIDE SWITCH (VR742)

Logic-Servo

CAPACITORS

C201	4822 124 21844	4.7µF 50V
C202	4822 124 21844	4.7µF 50V
C203	4822 122 33794	3300PF
C204	4822 122 40589	0.047µF 50V
C205	4822 122 33794	3300PF
C206	4822 122 40589	0.047µF 50V
C207	4822 122 33794	3300PF
C208	4822 122 40589	0.047µF 50V
C209	5322 121 42386	0.1µF 50V
C210	4822 122 40588	0.022µF 25V
C212	4822 124 21844	4.7µF 50V
C213	4822 124 21894	220µF 16V
C214	4822 124 21894	10µF 16V (VR642)
C215	5322 121 42386	0.1µF 50V (VR642)
C216	4822 124 21844	4.7µF 50V (VR642)
C217	4822 124 21844	4.7µF 50V (VR642)
C218	4822 122 40589	0.047µF 50V (VR642)
C219	4822 124 41246	47µF 16V (VR642)
C220	4822 124 21894	10µF 16V (VR642)
C221	5322 121 42386	0.1µF 50V (VR642)
C222	5322 121 42386	0.1µF 50V (VR642)
C223	5322 121 42386	0.1µF 50V (VR642)
C224	5322 121 42386	0.1µF 50V (VR642)
C225	4822 124 21844	4.7µF 50V (VR642)
C226	5322 121 42386	0.1µF 50V (VR642)
C227	4822 122 40589	0.047µF 50V
C601	4822 124 21894	10µF 16V
C602	4822 122 40589	0.047µF 50V
C603	4822 122 33795	4700PF
C604	4822 124 21903	1µF 50V
C605	4822 124 21903	1µF 50V
C606	4822 124 21407	0.47µF 50V
C607	4822 122 33795	4700PF
C608	4822 124 21407	0.47µF 50V
C609	4822 122 40586	0.01µF
C610	4822 124 21894	10µF 16V
C611	4822 124 41246	47µF 16V
C612	4822 122 40586	0.01µF
C614	4822 121 43856	4700PF
C615	4822 122 40586	0.01µF
C616	4822 121 41857	0.01µF 50V
C617	4822 124 41246	47µF 16V
C618	4822 124 21903	1µF 50V
C619	4822 124 41246	47µF 16V
C620	4822 122 40589	0.047µF 50V
C621	4822 124 23112	10µF 16V
C622	4822 124 21844	4.7µF 50V
C623	4822 124 41153	220µF 16V
C624	4822 122 40588	0.022µF 25V
C625	4822 124 21894	10µF 16V
C626	4822 124 21736	1µF 50V
C627	4822 124 21736	1µF 50V
C628	4822 121 43898	0.068 µF
C629	4822 124 41139	100µF 16V
C630	4822 122 40589	0.047µF 50V
C631	4822 121 42666	0.22µF 50V
C632	4822 121 42666	0.22µF 50V
C633	4822 124 21894	10µF 16V
C634	4822 122 40589	0.047µF 50V
C635	4822 124 21844	4.7µF 50V
C636	4822 121 42666	0.22µF 50V
C637	4822 122 40586	0.01µF
C638	4822 122 40586	0.01µF
C639	4822 122 33639	1000PF
C640	4822 122 33639	1000PF
C641	4822 122 31173	220PF 50V
C642	4822 122 31173	220PF 50V
C643	4822 122 33795	4700PF
C644	4822 122 40586	0.01µF
C645	4822 124 41246	47µF 16V
C646	4822 124 41246	47µF 16V
C647	4822 124 41246	47µF 16V
C648	4822 122 40586	0.01µF
C649	5322 121 42386	0.1µF 50V
C650	5322 121 42386	0.1µF 50V
C651	4822 124 41246	47µF 16V
C652	4822 122 33792	10PF
C653	4822 122 10367	150PF 50V
C654	5322 122 32265	100PF 50V
C655	4822 122 40586	0.01µF
C656	4822 124 41246	47µF 16V
C657	4822 124 41246	220µF 16V
C658	4822 124 21894	10µF 16V
C659	4822 122 40586	0.01µF
C660	4822 124 21894	10µF 16V
C662	4822 122 40586	0.01µF
C663	4822 124 21736	1µF 50V
C666	5322 121 42386	0.1µF 50V
C667	4822 122 40589	0.047µF
C668	4822 122 40589	0.047µF

DIODES

D601	4822 130 32778	1SS133
D602	4822 130 32778	1SS133
D603	4822 130 32778	1SS133
D604	4822 130 32778	1SS133
D605	4822 130 32778	1SS133
D606	4822 130 32778	1SS133
D607	4822 130 32778	1SS133
D608	4822 130 32778	1SS133
D609	4822 130 32778	1SS133
D610	4822 130 32778	1SS133
D611	4822 130 32778	1SS133
D612	4822 130 32778	1SS133
D613	4822 130 32778	1SS133
D614	4822 130 32778	1SS133
D615	4822 130 32778	1SS133
D616	4822 130 32778	1SS133
D617	4822 130 32778	1SS133
D618	4822 130 32778	1SS133
D619	4822 130 32778	1SS133
D620	4822 130 32778	1SS133
D621	4822 130 32778	1SS133
D623	4822 130 32778	1SS133
D624	4822 130 32778	1SS133
D625	4822 130 32778	1SS133
D626	4822 130 32778	1SS133
D627	4822 130 32778	1SS133 (VR642)
D629	4822 130 32778	1SS133 (VR642)
D630	4822 130 32778	1SS133
D631	4822 130 32778	1SS133
D633	4822 130 32778	1SS133
D634	4822 130 32778	1SS133
D635	4822 130 32778	1SS133
D636	4822 130 82381	RB100A
D637	4822 130 32778	1SS133

Z603	4822 130 33948	5.6V ZENER
Z604	4822 130 80273	8.2V ZENER

Logic-Servo

IC's

IC21	4822 209 30649	BA6435S CAPSTAN
IC22	4822 209 60048	AN3814K (VR642)
IC61	4822 209 82205	BA10358 DUAL OP AMP
IC62	4822 209 60045	BA10339 QUAD COMP.
IC63	4822 209 31428	MN6740VRDP (HIFI) (VR842, VR742)
IC63	4822 209 30655	MN6740VRDN (VR642)

CONNECTORS

J201	4822 267 31428	4PIN
J202	4822 267 31425	12PIN
J203	4822 265 30668	4PIN
J601	4822 265 40802	9PIN
J602	4822 265 30669	5PIN
J603	4822 265 30671	6PIN
J604	4822 265 30668	4PIN (VR642)
J605	4822 265 30669	5PIN (VR642)
J606	4822 265 51327	19PIN (VR642)
J606		29PIN (VR842, VR742)
J607	4822 265 30669	5PIN (VR842, VR742)

COILS

L601	4822 157 63638	1MH
L602	4822 157 60444	100µH

TRANSISTORS

Q601	4822 130 60839	2SC2458 (Y OR GR)
Q602	4822 130 60107	2SA1048 (Y OR GR)
Q603	4822 130 60107	2SA1048 (Y OR GR)
Q604	4822 130 60839	2SC2458
Q605	4822 130 60839	2SC2458 (Y OR GR)
Q606	4822 130 60839	2SC2458 (Y OR GR)
Q607	4822 130 60839	2SC2458 (Y OR GR)
Q608	4822 130 60107	2SA1048 (Y OR GR)
Q609	4822 130 60839	2SC2458 (Y OR GR)
Q610	4822 130 60107	2SA1048 (Y OR GR)
Q611	4822 130 60839	2SC2458 (Y OR GR)
Q612	4822 130 61439	2SB1237 (R)
Q613	4822 130 61439	2SB1237 (R)
Q614	4822 130 61476	2SD1423 R
Q615	4822 130 60107	2SA1048 (Y OR GR)
Q616	4822 130 61474	2SD592 R
Q617	4822 130 63243	2SD2258 RANK R&S
Q618	4822 130 60839	2SC2458 (Y OR GR)
Q619	4822 130 61486	2SC2058S (P OR Q)
Q620	4822 130 61439	2SB1237 (R)
Q621	4822 130 42254	2SD1275 P. DARLINTON
Q622	4822 130 60839	2SC2458 (Y OR GR)
Q623	4822 130 60839	2SC2458 (Y OR GR)
Q624	4822 130 60107	2SA1048 (Y OR GR)
Q625	4822 130 60107	2SA1048 (Y OR GR)
Q626	4822 130 61474	2SD592 R
Q627	4822 130 60839	2SC2458 (Y OR GR)
Q628	4822 130 60107	2SA1048 (Y OR GR)
Q629	4822 130 60839	2SC2458 (Y OR GR)
Q635	4822 130 60839	2SC2458
Q636	4822 130 60839	2SC2458 (Y OR GR)
Q637	4822 130 60107	2SA1048 (Y OR GR)
Q638	4822 130 60107	2SA1048 (Y OR GR)
Q639	4822 130 60839	2SC2458 (Y OR GR)

RESISTORS

R201	4822 116 52195	47 Ω
R202	4822 116 52195	47 Ω
R203	4822 116 52195	47 Ω
R204	4822 050 11002	1 kΩ
R205	4822 050 11002	1 kΩ
R206	4822 117 10222	0.68 Ω 1/2W METAL
R207	4822 116 52195	47 Ω
R208	4822 116 10222	0.68 Ω 1/2W METAL (VR642)
R209	4822 116 52243	1.5 kΩ (VR642)
R210	4822 116 52176	10 Ω (VR642)
R211	4822 116 52176	10 Ω (VR642)
R212	4822 116 52176	10 Ω (VR642)
R213	4822 116 52257	22 kΩ
R214	4822 116 52284	47 kΩ
R215	4822 116 52297	68 kΩ
R601	4822 116 52233	10 kΩ
R602	4822 116 52233	10 kΩ
R603	4822 116 52284	47 kΩ
R604	4822 116 52284	47 kΩ
R605	4822 116 52243	1.5 kΩ
R606	4822 116 52269	3.3 kΩ
R607	4822 116 52215	220 Ω
R608	4822 116 52284	47 kΩ
R609	4822 116 52233	10 kΩ
R610	4822 050 11002	1 kΩ
R611	4822 116 52298	680 kΩ
R612	4822 116 52284	47 kΩ
R613	4822 116 52243	1.5 kΩ
R614	4822 116 52215	220 Ω
R615	4822 116 52233	10 kΩ
R616	4822 050 11002	1 kΩ
R617	4822 116 52257	22 kΩ
R618	4822 116 52257	22 kΩ
R619	4822 116 52257	22 kΩ
R620	4822 116 52235	1 MΩ
R624	4822 116 52235	1 MΩ
R625	4822 116 52175	100 Ω
R626	4822 050 11002	1 kΩ
R627	4822 116 52283	4.7 kΩ
R628	4822 116 52257	22 kΩ
R629	4822 116 52257	22 kΩ
R630	4822 116 52296	6.8 kΩ
R631	4822 111 41355	75 Ω
R632	4822 116 52269	3.3 kΩ (VR842, VR742)
R632	4822 116 52256	2.2 kΩ (VR642)
R633	4822 116 52296	6.8 kΩ
R634	4822 116 52296	6.8 kΩ
R635	4822 116 52233	10 kΩ
R636	4822 116 52269	3.3 kΩ
R637	4822 116 52298	680 kΩ
R638	4822 116 52269	3.3 kΩ
R639	4822 116 52257	22 kΩ
R640	4822 116 52257	22 kΩ
R641	4822 116 52256	2.2 kΩ
R642	4822 116 52215	220 Ω
R643	4822 050 11002	1 kΩ
R644	4822 116 52296	6.8 kΩ
R645	4822 116 52296	6.8 kΩ
R646	4822 116 52256	2.2 kΩ
R647	4822 116 52234	100 kΩ
R648	4822 116 52284	47 kΩ
R649	4822 116 52284	47 kΩ
R650	4822 116 52233	10 kΩ
R651	4822 116 52233	10 kΩ
R652	4822 116 52233	10 kΩ

Logic-Servo

R653	4822 116 52233	10 kΩ
R654	4822 116 52245	150 kΩ
R655	4822 116 52296	6.8 kΩ
R656	4822 116 52257	22 kΩ
R657	4822 050 11002	1 kΩ
R658	4822 050 11002	1 kΩ
R659	4822 050 11002	1 kΩ
R660	4822 116 52283	4.7 kΩ
R661	4822 050 11002	1 kΩ
R662	4822 116 52257	22 kΩ
R663	4822 116 52233	10 kΩ
R664	4822 116 52233	10 kΩ
R665	4822 116 52283	4.7 kΩ
R666	4822 116 52215	220 Ω
R667	4822 116 52215	220 Ω
R668	4822 116 52256	2.2 kΩ
R669	4822 116 52256	2.2 kΩ
R671	4822 116 52233	10 kΩ
R672	4822 116 52233	10 kΩ
R673	4822 116 52219	330 Ω
R674	4822 116 52211	150 Ω
R678	4822 116 52233	10 kΩ
R679	4822 116 52284	47 kΩ
R680	4822 116 52284	47 kΩ
R681	4822 116 52284	47 kΩ
R682	4822 116 52284	47 kΩ
R683	4822 116 52244	15 kΩ
R684	4822 116 52296	6.8 kΩ
R685	4822 116 52269	3.3 kΩ
R686	4822 116 52296	6.8 kΩ
R687	4822 116 52243	1.5 kΩ
R688	4822 113 90119	22 Ω 1/4W FUSE
R689	4822 116 52243	1.5 kΩ
R690	4822 116 52245	150 kΩ
R691	4822 116 52284	47 kΩ
R692	4822 116 52284	47 kΩ
R693	4822 116 52296	6.8 kΩ
R694	4822 116 52296	6.8 kΩ
R695	4822 116 52233	10 kΩ
R696	4822 116 60462	18 Ω 2W METAL
R697	4822 116 52233	10 kΩ
R698	4822 116 52271	33 kΩ
R699	4822 050 11002	1 kΩ
R6A0	4822 116 52243	1.5 kΩ
R6A1	4822 116 52256	2.2 kΩ
R6A2	4822 116 52219	330 Ω
R6A3	4822 116 52284	47 kΩ
R6A4	4822 116 52271	33 kΩ
R6A5	4822 116 52271	33 kΩ
R6A6	4822 116 52269	3.3 kΩ
R6A7	4822 116 52175	100 Ω
R6A8	4822 116 52175	100 Ω
R6A9	4822 116 52175	100 Ω
R6C0	4822 116 52228	680 Ω
R6C1	4822 116 52228	680 Ω
R6C2	4822 050 11002	1 kΩ
R6C3	4822 116 52244	15 kΩ
R6C4	4822 116 52244	15 kΩ
R6C5	4822 116 52297	68 kΩ
R6C6	4822 116 52228	680 Ω
R6C7	4822 116 52233	10 kΩ
R6C9	4822 050 11002	1 kΩ
R6D0	4822 050 11002	1 kΩ
R6D1	4822 116 52283	4.7 kΩ
R6D2	4822 116 52228	680 Ω
R6D3	4822 116 52269	3.3 kΩ
R6D4	4822 116 52257	22 kΩ
R6D5	4822 116 52257	22 kΩ
R6D6	4822 116 52283	4.7 kΩ
R6D7	4822 116 52257	22 kΩ
R6D8	4822 116 52257	22 kΩ
R6D9	4822 116 52257	22 kΩ
R6E0	4822 116 52257	22 kΩ
R6E2	4822 050 11002	1 kΩ
R6E3	4822 116 52257	22 kΩ
R6E4	4822 116 52257	22 kΩ
R6E5	4822 116 52233	10 kΩ
R6E6	4822 100 11473	220 kΩ TRIMMING
R6E7	4822 100 11473	220 kΩ TRIMMING
R6E8	4822 116 52283	4.7 kΩ
R6E9	4822 116 52257	22 kΩ
R6F0	4822 116 52257	22 kΩ
R6F1	4822 100 11372	47 kΩ TRIMMING
R6F2	4822 100 11471	100 kΩ TRIMMING
R6F3	4822 100 11471	100 kΩ TRIMMING
R6F4	4822 116 52284	47 kΩ
R6F5	4822 116 52284	47 kΩ
R6F6	4822 116 52269	3.3 kΩ
R6F7	4822 116 52258	220 kΩ
R6F9	4822 116 52269	3.3 kΩ
R6H1	4822 116 52233	10 kΩ
R6H2	4822 116 52258	220 kΩ
R6H3	4822 116 52284	47 kΩ
R6H4	4822 116 52284	47 kΩ
R6H5	4822 116 52283	4.7 kΩ (VR842, VR742)
R6H5	4822 050 11002	1 kΩ (VR642)
R6H6	4822 116 52284	47 kΩ (VR642)
R6H7	4822 116 52284	47 kΩ (VR642)
R6H8	4822 116 52284	47 kΩ (VR842, VR742/57, VR642)
R6H9	4822 116 52233	10 kΩ
R6J0	4822 116 52233	1 kΩ
R6J1	4822 116 52284	47 kΩ
R6J2	4822 116 52284	47 kΩ
R6J3	4822 116 52256	2.2 kΩ
R6J4	4822 116 52256	2.2 kΩ
R6J5	4822 116 52256	2.2 kΩ
R6J6	4822 116 52283	4.7 kΩ
R6J7	4822 116 52233	10 kΩ
R6J8	4822 116 52233	10 kΩ
R6J9	4822 116 52233	10 kΩ
R6V0	4822 116 52233	10 kΩ
R6V1	4822 116 52284	47 kΩ
R6V2	4822 116 52284	47 kΩ
R6V3	4822 116 52256	2.2 kΩ

SWITCH

S601		SLIDE SWITCH (VR842, VR742/57)

X-TAL

X601	4822 242 81035	7.159 MHZ X' TAL

Frontend

CAPACITORS

C702	5322 121 42386	0.1µF
C703	4822 122 40586	0.01µF
C704	4822 124 21894	10µF 16V
C705	4822 122 40586	0.01µF
C706	4822 124 21736	1µF 50V
C707	4822 124 21736	1µF 50V
C708	4822 122 40589	0.047µF 50V
C709	4822 122 40586	0.01µF
C710	4822 124 21894	10µF 16V
C711	5322 122 32265	100PF 50V
C712	5322 122 32265	100PF 50V
C713	5322 122 32265	100PF 50V
C714	4822 122 33795	4700PF
C715	4822 126 11726	2200PF (VR842, VR742)
C715	4822 122 40588	0.022µF (VR642)
C716	4822 122 40586	0.01µF (VR842, VR742)
C716	4822 126 11726	2200PF 50V (VR642)
C717	4822 122 33795	4700PF (VR642)
C718	4822 124 21894	10µF 16V (VR842, VR742/57, VR642)
C719	4822 124 21894	10µF 16V(VR842, VR742/57, VR642)
C720	4822 124 21894	10µF 16V(VR842, VR742/57, VR642)
C721	4822 124 23112	10µF 16V (VR642)
C722	4822 124 23112	10µF 16V (VR642)
C723	4822 122 33639	1000PF
C724	5322 122 32335	330PF 50V
C725	4822 124 21407	0.47µF 50V
C726	4822 124 21736	1µF 50V
C727	4822 122 33639	1000PF
C728	4822 124 21407	0.47µF 50V
C729	4822 124 21894	10µF 16V
C730	4822 124 21894	10µF 16V
C731	4822 124 21894	10µF 16V
C732	4822 122 40586	0.01µF
C733	4822 124 21894	10µF 16V
C734	4822 122 40586	0.01µF (VR842, VR742/55)
C735	4822 122 40586	0.01µF (VR842, VR742/55)
C736	4822 124 21894	10µF 16V (VR842, VR742)
C737	4822 124 21736	1µF 50V (VR842, VR742)
C738	4822 124 21894	10µF 16V
C739	4822 122 40589	0.047µF 50V (VR842,VR742/55)
C901	4822 122 40586	0.01µF (VR842, VR742/55)
C902	4822 122 40586	0.01µF (VR842, VR742/55)
C903	4822 124 21894	10µF 16V (VR842, VR742/55)
C904	4822 122 40586	0.01µF (VR842, VR742/55)
C905	5322 122 32143	22PF 50V (VR842,VR742/55)
C906	4822 122 33639	1000PF (VR842, VR742/55)
C907	4822 124 21736	1µF 50V (VR842, VR742/55)
C908	5322 122 32265	100PF 50V (VR842, VR742/55)
C909	5322 122 32265	100PF 50V (VR842, VR742/55)
C910	4822 122 33639	1000PF (VR842, VR742/55)
C911	4822 124 21736	1µF 50V (VR842, VR742/55)
C912	4822 124 21736	1µF 50V (VR842, VR742/55)
C913	4822 122 40589	0.047µF 50V (VR842, VR742/55)
C914	4822 122 40589	0.047µF 50V (VR842, VR742/55)
C915	4822 124 21736	1µF 50V (VR842, VR742/55)
C916	4822 124 21894	10µF 16V (VR842, VR742/55)
C917	4822 122 40586	0.01µF (VR842, VR742/55)
C918	4822 121 42666	0.22µF 50V (VR842, VR742/55)

DIODES

Z701	4822 130 33948	5.6V ZENER
Z702	4822 130 80132	3.9V ZENER

TUNERS

E701	4822 210 10542	Tuner/IF: BG (VR742/57)
E701	4822 21010539	Tuner/IF: Multi (VR842, VR742/55, VR642)

FILTERS

FL91	4822 242 73547	5.74MHZ BPF (VR842, VR742/55)
FL92	4822 242 73547	5.74MHZ BPF (VR842, VR742/55)
FL93	4822 242 73547	5.74MHZ TRAP (VR842, VR742/55)

IC's

IC71	4822 209 60079	LA7222 (VR842, VR742/57, VR642)
IC72	4822 209 61687	LA7210
IC91	4822 209 62175	TA7337P (VR842, VR742/55)
IC92	4822 209 63967	TDA8415 (VR842, VR742/55)

CONNECTORS

J701		29PIN (VR842, VR742)
J701	4822 265 51327	19PIN (VR642)

COILS

L701	4822 157 62252	22µH
L702	4822 157 62252	22µH
L703	4822 157 62252	22µH
L704	4822 157 62252	22µH
L901	4822 157 62252	22µH (VR842, VR742/55)
L902	4822 156 21569	5.74MHZ LLD (VR842, VR742/55)
L903	4822 157 60445	15µH (VR842, VR742/55)
L904	4822 157 62252	22µH (VR842, VR742/55)

Frontend

TRANSISTORS

Q702	4822 130 60839	2SC2458 (Y OR GR)
Q703	4822 130 60107	2SA1048 (Y OR GR)
Q706	4822 130 61486	2SC2058S (P OR Q) (VR842, VR742/55)
Q707	4822 130 60839	2SC2458 (Y OR GR)
Q708	4822 130 61474	2SD592 R
Q709	4822 130 61474	2SD592 R

RESISTORS

R701	4822 116 52272	330 kΩ
R702	4822 116 52285	470 kΩ
R703	4822 116 52219	330 Ω
R704	4822 116 52175	100 Ω
R705	4822 116 52175	100 Ω
R706	4822 116 52175	100 Ω
R707	4822 116 52283	4.7 kΩ
R708	4822 116 52283	4.7 kΩ
R709	4822 116 52283	4.7 kΩ
R710	4822 116 52284	47 kΩ (VR842, VR742)
R710	4822 116 52283	4.7 kΩ (VR642)
R711	4822 116 52297	68 kΩ (VR842, VR742)
R712	4822 116 52233	10 kΩ
R713	4822 116 52284	47 kΩ (VR842, VR742)
R713	4822 116 52234	100 kΩ (VR642)
R714	4822 116 52234	100 kΩ
R715	4822 116 52244	15 kΩ (VR842, VR742)
R716	4822 116 52233	10 kΩ (VR642)
R717	4822 116 52233	10 kΩ (VR842, VR742/57, VR642)
R718	4822 052 10101	100 Ω (VR842, VR742/57, VR642)
R719	4822 050 11002	1 kΩ
R720	4822 050 11002	1 kΩ
R721	4822 116 52272	330 kΩ
R722	4822 116 52244	15 kΩ
R723	4822 116 52297	68 kΩ
R724	4822 050 11002	1 kΩ
R725	4822 116 52233	10 kΩ
R726	4822 116 52215	220 Ω
R727	4822 050 11002	1 kΩ
R728	4822 116 52215	220 Ω
R729	4822 116 52243	1.5 kΩ
R730	4822 050 11002	1 kΩ
R731	4822 116 52219	330 Ω (VR842, VR742/55)
R732	4822 050 11002	1 kΩ (VR842, VR742/55)
R733	4822 050 24708	47 Ω (VR842, VR742/55)
R734	4822 116 52269	3.3 kΩ (VR842, VR742/55)
R735	4822 116 52175	100 Ω (VR842, VR742/55)
R736	4822 116 52257	22 kΩ
R737	4822 116 52176	10 Ω
R738	4822 116 52176	10 Ω
R901	4822 050 11002	1 kΩ (VR842, VR742/55)
R902	4822 116 52269	3.3 kΩ (VR842, VR742/55)
R903	4822 050 11002	1 kΩ (VR842, VR742/55)
R904	4822 116 52233	10 kΩ (VR842, VR742/55)
R905	4822 116 52283	4.7 kΩ (VR842, VR742/55)
R906	4822 116 52175	100 Ω (VR842, VR742/55)
R907	4822 116 52175	100 Ω (VR842, VR742/55)
R908	4822 100 11372	47 kΩ TRIMMING (VR842, VR742/55)
R909	4822 116 52233	15 kΩ (VR842, VR742/55)
R910	4822 116 52233	15 kΩ (VR842, VR742/55)
R911	4822 116 52271	33 kΩ (VR842, VR742/55)
R912	4822 116 52271	33 kΩ (VR842, VR742/55)
R913	4822 116 52283	4.7 kΩ (VR842, VR742/55)
R914	4822 116 52283	4.7 kΩ (VR842, VR742/55)

X-TAL's

X701	4822 242 72939	500KHZ
X901	4822 242 73551	10MHZ X'TAL (VR842, VR742/55)

CAPACITORS

C509	4822 124 21894	10µF 16V (VR842, VR742)
C510	4822 124 21894	10µF 16V (VR842, VR742)
C511	4822 124 21844	4.7µF 50V (VR842, VR742)
C512	4822 122 32701	0.022µF (VR842, VR742)
C513	4822 124 41246	47µF 16V (VR842, VR742)
C514	5322 122 34098	0.01µF (VR842, VR742)
C515	4822 122 32845	3300PF (VR842, VR742)
C516	4822 122 33712	470PF (VR842, VR742)
C517	4822 122 33138	680PF (VR842, VR742)
C518	4822 122 33712	470PF (VR842, VR742)
C519	4822 124 21844	4.7µF 50V (VR842, VR742)
C520	4822 124 21894	10µF 16V (VR842, VR742)
C521	4822 122 33714	0.1µF 5V (VR842, VR742)
C522	4822 122 32843	0.22µF (VR842, VR742)
C523	5322 122 34098	0.01µF (VR842, VR742)
C524	4822 124 21736	1µF 50V (VR842, VR742)
C525	5322 126 10511	0.001µF (VR842, VR742)
C526	4822 122 33714	0.1µF 5V (VR842, VR742)
C527	4822 124 21894	10µF 16V (VR842, VR742)
C528	4822 124 21844	4.7µF 50V (VR842, VR742)
C529	4822 122 33712	470PF (VR842, VR742)
C530	4822 122 33138	680PF (VR842, VR742)
C531	4822 122 33712	470PF (VR842, VR742)
C532	4822 122 32845	3300PF (VR842, VR742)
C533	5322 122 34098	0.01µF (VR842, VR742)
C534	4822 124 41246	47µF 16V (VR842, VR742)
C535	4822 122 32701	0.022µF (VR842, VR742)
C536	4822 124 21844	4.7µF 50V (VR842, VR742)
C537	4822 124 21894	10µF 16V (VR842, VR742)
C538	4822 124 21894	10µF 16V (VR842, VR742)
C539	4822 124 21894	10µF 16V (VR842, VR742)
C540	4822 122 32698	4700PF (VR842, VR742)
C541	4822 124 21894	10µF 16V (VR842, VR742)
C542	4822 124 21894	10µF 16V (VR842, VR742)
C543	4822 122 33127	2200PF (VR842, VR742)
C544	5322 122 34098	0.01µF (VR842, VR742)
C545	5322 126 10511	0.001µF (VR842, VR742)
C546	5322 126 10511	0.001µF (VR842, VR742)
C547	4822 122 33138	680PF (VR842, VR742)
C548	4822 122 32698	4700PF (VR842, VR742)
C549	5322 122 34098	0.01µF (VR842, VR742)
C551	5322 126 10511	0.001µF (VR842, VR742)
C552	4822 124 21844	4.7µF 50V (VR842, VR742)
C553	4822 124 21844	4.7µF 50V (VR842, VR742)
C554	4822 124 21894	10µF 16V (VR842, VR742)
C555	4822 124 21894	10µF 16V (VR842, VR742)
C556	4822 124 21894	10µF 16V (VR842, VR742)
C559	4822 122 32698	4700PF (VR842, VR742)
C5A1	5322 121 42386	0.1µF 50V (VR842, VR742)
C5A2	4822 124 21894	10µF 16V (VR842, VR742)
C5A3	4822 124 21894	10µF 16V (VR842, VR742)
C5A4	4822 124 21894	10µF 16V (VR842, VR742)
C5A7	4822 124 21894	10µF 16V (VR842, VR742)
C5A8	4822 124 21894	10µF 16V (VR842, VR742)
C5A9	4822 124 21894	10µF 16V (VR842, VR742)
C5C0	4822 124 21894	10µF 16V (VR842, VR742)
C5C1	4822 124 41139	100µF 16V (VR842, VR742)
C5C2	4822 124 21736	1µF 50V (VR842, VR742)
C5C3	4822 124 41139	100µF 16V (VR842, VR742)
C5C4	4822 124 21894	10µF 16V (VR842, VR742)
C5C5	4822 124 21894	100µF 16V (VR842, VR742)
C5C6	4822 124 21894	10µF 16V (VR842)
C5C7	4822 124 21894	10µF 16V (VR842)
C5C8	4822 124 41246	47µF 16V (VR842, VR742)

DIODES

D501	4822 130 81166	1SS184 CHIP (VR842, VR742)
D5A1	4822 130 32778	1SS133 (VR842, VR742)
D5A2	4822 130 32778	1SS133 (VR842, VR742)
D5A3	4822 130 32778	1SS133 (VR842, VR742)

IC's

IC51	4822 209 32249	BH7771KS (VR842, VR742)
IC52	4822 209 32247	AN3912 (VR842, VR742)
IC53	4822 209 63132	BA7755A (VR842, VR742)

CONNECTORS

J501	4822 267 70326	32PIN (VR842, VR742)
J502	4822 265 30969	5PIN (VR842, VR742)

COILS

L501	4822 157 62252	22µH (VR842, VR742)
L502	4822 157 62252	22µH (VR842, VR742)
L503	4822 152 20643	10MH (VR842, VR742)

TRANSISTORS

Q501	4822 130 60107	2SA1048 (Y OR GR) (VR842, VR742)
Q502	4822 130 60107	2SA1048 (Y OR GR) (VR842, VR742)
Q5A1	4822 130 60839	2SC2458 (Y OR GR) (VR842, VR742)
Q5A2	4822 130 60107	2SA1048 (Y OR GR) (VR842, VR742)
Q5A3	4822 130 61886	2SD1292 (Q OR R) (VR842, VR742)
Q5A4		2SB810 RANK FL&EL (VR842, VR742)
Q5A5	4822 130 60839	2SC2458 (Y OR GR) (VR842, VR742)
Q5A6	4822 130 60839	2SC2458 (Y OR GR) (VR842, VR742)
Q5A7	4822 130 60839	2SC2458 (Y OR GR) (VR842, VR742)
Q5A8	4822 130 60839	2SC2458 (Y OR GR) (VR842, VR742)
Q5A9	4822 130 60839	2SC2458 (Y OR GR) (VR842, VR742)
Q5C0	4822 130 60839	2SC2458 (Y OR GR) (VR842, VR742)
Q5C1	4822 130 60839	2SC2458(Y OR GR) (VR842, VR742)

RESISTORS

R501	4822 051 30105	1 MΩ 1/16W (VR842, VR742)
R502	4822 051 30105	1 MΩ 1/16W (VR842, VR742)
R503	4822 051 30224	220 kΩ 1/16W (VR842, VR742)
R504	4822 051 30103	10 kΩ 1/16W (VR842, VR742)
R505	4822 051 30333	33 kΩ 1/16W (VR842, VR742)
R506	4822 051 30103	10 kΩ 1/16W (VR842, VR742)
R507	4822 100 11609	47 kΩ ± 25% 1/10W TRIMMING (VR842, VR742)
R508	4822 100 11634	100 kΩ ± 25% 1/10W TRIMMING(VR842, VR742)
R509	4822 100 11609	47 kΩ ± 25% 1/10W TRIMMING (VR842, VR742)
R510	4822 051 30103	10 kΩ 1/16W (VR842, VR742)
R511	4822 051 30103	10 kΩ 1/16W (VR842, VR742)
R512	4822 111 90892	0 Ω 1/16W CHIP (VR842, VR742)
R513	4822 051 30153	15 kΩ 1/16W (VR842, VR742)
R514	4822 051 30222	2.2 kΩ 1/16W (VR842, VR742)
R515	4822 051 30471	470 Ω 1/16W (VR842, VR742)
R516	4822 051 30334	330 kΩ 1/16W (VR842, VR742)
R517	4822 051 30153	15 kΩ 1/16W (VR842, VR742)
R518	4822 051 30682	6.8 kΩ 1/16W (VR842, VR742)
R519	4822 051 30333	33 kΩ 1/16W (VR842, VR742)
R520	4822 051 30103	10 kΩ 1/16W (VR842, VR742)
R521	4822 051 30333	33 kΩ 1/16W (VR842, VR742)
R522	4822 051 30103	10 kΩ 1/16W (VR842, VR742)
R523	4822 100 11942	10 kΩ ± 25% 1/10W TRIMMING (VR842, VR742)
R524	4822 100 11609	47 kΩ ± 25% 1/10W TRIMMING (VR842, VR742)
R525	4822 051 30223	22 kΩ ± 5% 1/16W (VR842, VR742)
R526	4822 051 30103	10 kΩ 1/16W (VR842, VR742)
R527	4822 051 30103	10 kΩ 1/16W (VR842, VR742)
R528	4822 051 30224	220 kΩ 1/16W (VR842, VR742)
R529	4822 051 30103	10 kΩ 1/16W (VR842, VR742)
R530	4822 051 30103	10 kΩ 1/16W (VR842, VR742)
R531	4822 051 30105	1 MΩ 1/16W (VR842, VR742)
R532	4822 051 30105	1 MΩ 1/16W (VR842, VR742)
R533	4822 051 30332	3.3 kΩ 1/16W (VR842, VR742)
R534	4822 051 30103	10 kΩ 1/16W (VR842, VR742)
R535	4822 051 30222	2.2 kΩ 1/16W (VR842, VR742)
R536	4822 051 30473	47 kΩ 1/16W (VR842, VR742)
R537	4822 051 30103	10 kΩ 1/16W (VR842, VR742)
R538	4822 051 30682	6.8 kΩ 1/16W (VR842, VR742)
R539	4822 051 30331	330 Ω 1/16W (VR842, VR742)
R540	4822 051 30334	330 kΩ 1/16W (VR842, VR742)
R541	4822 051 30473	47 kΩ 1/16W (VR842, VR742)
R542	4822 051 30471	470 Ω 1/16W (VR842, VR742)
R543	4822 051 30471	470 Ω 1/16W (VR842, VR742)
R545	4822 051 30152	1.5 kΩ 1/16W (VR842, VR742)
R546	4822 051 30153	15 kΩ 1/16W (VR842, VR742)
R547	4822 051 30473	47 kΩ 1/16W (VR842, VR742)
R548	4822 051 30682	6.8 kΩ 1/16W (VR842, VR742)
R549	4822 051 30103	10 kΩ 1/16W (VR842, VR742)
R550	4822 051 30102	1 kΩ 1/16W (VR842, VR742)
R551	4822 051 30103	10 kΩ 1/16W (VR842, VR742)
R552	4822 051 30103	10 kΩ 1/16W (VR842, VR742)
R553	4822 051 30105	1 MΩ 1/16W (VR842, VR742)
R554	4822 051 30105	1 MΩ 1/16W (VR842, VR742)
R555	4822 051 30151	150 Ω 1/16W (VR842, VR742)
R556	4822 051 30473	47 kΩ 1/16W (VR842, VR742)
R557	4822 111 90892	0 Ω 1/16W CHIP (VR842, VR742)
R558	4822 111 90892	0 Ω 1/16W CHIP (VR842, VR742)
R5A7	4822 116 52297	68 kΩ (VR842, VR742)
R5A8	4822 116 52297	68 kΩ (VR842, VR742)
R5A9	4822 116 52269	3.3 kΩ (VR842, VR742)
R5C4	4822 116 52284	47 kΩ (VR842, VR742)
R5C5	4822 116 52284	47 kΩ (VR842, VR742)
R5C6	4822 116 52233	10 kΩ (VR842, VR742)
R5C7	4822 100 20541	47 kΩ TRIMMING (VR842, VR742)
R5C8	4822 116 52285	33 kΩ (VR842, VR742)
R5D0	4822 116 52271	33 kΩ (VR842, VR742)
R5D1	4822 116 52233	10 kΩ (VR842, VR742)
R5D2	4822 116 52233	10 kΩ (VR842, VR742)
R5D3	4822 116 52271	33 kΩ (VR842, VR742)
R5D4	4822 052 10101	100 Ω (VR842, VR742)
R5D5	4822 116 52284	47 kΩ (VR842, VR742)
R5D6	4822 116 52269	3.3 kΩ (VR842, VR742)
R5D7	4822 116 51086	22 Ω 2W (VR842, VR742)
R5D8	4822 116 60248	560 Ω 2W (VR842, VR742)
R5E2	4822 050 11002	1 kΩ (VR842, VR742)

R5E3	4822 050 11002	1 kΩ (VR842, VR742)
R5E5	4822 050 11002	1 kΩ (VR842, VR742)
R5E6	4822 116 52228	680 Ω (VR842, VR742)
R5E7	4822 116 52224	470 Ω (VR842, VR742)
R5E8	4822 116 52284	47 kΩ (VR842, VR742)
R5E9	4822 116 52284	47 kΩ (VR842, VR742)
R5F0	4822 050 11002	1 kΩ (VR842, VR742)
R5F1	4822 116 52228	680 Ω (VR842, VR742)
R5F2	4822 116 52284	47 kΩ (VR842, VR742)
R5F3	4822 116 52284	47 kΩ (VR842, VR742)
R5F4	4822 116 52224	470 Ω (VR842, VR742)
R5F5	4822 052 10101	100 Ω (VR842, VR742)
R5F6	4822 101 11034	22 kΩ (VR842)
R5F7	4822 101 11034	22 kΩ (VR842)
R5H2	4822 050 11002	1 kΩ (VR842, VR742)
R5H3	4822 116 52284	47 kΩ (VR842, VR742)
R5H4	4822 052 10101	100 Ω (VR842, VR742)
R5H5	4822 116 52284	47 kΩ (VR842, VR742)
R5H6	4822 116 52284	47 kΩ (VR842, VR742)

CAPACITORS (VR642)

C3H1	4822 122 40588	0.022µF
C3H2	4822 122 33639	1000PF
C3H3	4822 124 21894	10µF 16V
C3H4	4822 122 40589	0.047µF 50V
C3H5	5322 122 32143	22PF 50V
C3H6	4822 122 40589	0.047µF 50V
C3H7	5322 122 32143	22PF
C3H8	4822 124 21894	10µF 16V
C3H9	4822 124 21894	10µF 16V
C3J0	4822 122 40589	0.047µF 50V
C3J1	4822 122 31205	47PF 50V
C3J2	4822 122 40589	0.047µF 50V
C3J3	4822 122 31205	47PF 50V
C3J4	4822 124 21894	10µF 16V
C3J5	4822 122 33639	1000PF
C3K0	4822 124 21736	1µF 50V
C3K1	4822 122 40589	0.047µF 50V
C3K2	4822 122 40586	0.01µF
C3K3	4822 122 40586	0.01µF
C3K4	4822 124 41246	47µF 16V
C3K5	4822 122 40586	0.01µF
C3K6	4822 122 40586	0.01µF
C3K7	4822 124 41246	47µF 16V
C3K8	4822 122 40586	0.01µF
C3K9	4822 122 33639	1000PF
C3L0	4822 122 40586	0.01µF
C3L2	4822 124 21736	1µF 50V
C3L3	5322 122 32143	22PF 50V
C3L4	4822 122 10367	150PF 50V
C3L5	5322 122 32265	100PF
C3L6	4822 122 31173	220PF 50V
C3L9	4822 122 32027	56PF
C3M0	4822 122 31349	68PF 50V
C3M1	4822 122 33792	10PF 50V
C3M2	4822 122 31178	680PF 50V
C3M3	5322 122 32072	33PF
C3M4	4822 122 31823	15PF 50V
C3M8	4822 122 33639	1000PF

IC/CONNECTORS (VR642)

IC38	4822 209 30648	BA7274S
J3H1	4822 267 50879	8PIN
J3H2	4822 265 41181	14PIN

COILS (VR642)

L3H1	4822 157 60444	100µH
L3H2	4822 157 60444	100µH
L3H4	4822 157 60445	15µH
L3H5	4822 157 62252	22µH
L3H6	4822 157 60454	82µH
L3H7	4822 157 60449	150µH
L3H8	4822 157 60446	33µH
L3H9	4822 157 60445	15µH
L3J0	4822 157 60444	100µH
L3J1	4822 157 60445	15µH

TRANSISTORS (VR642)

Q3H1	4822 130 61486	2SC2058S (P OR Q)
Q3H2	4822 130 60839	2SC2458 (Y OR GR)
Q3H3	4822 130 60839	2SC2458 (Y OR GR)

Head Amplifer (VR642)

RESISTORS(VR642)

R3H1	4822 116 52228	680 Ω
R3H2	4822 116 52228	680 Ω
R3H3	4822 116 52228	680 Ω
R3H4	4822 116 52228	680 Ω
R3H5	4822 116 52224	470 Ω
R3H6	4822 116 52224	470 Ω
R3H7	4822 116 52195	47 Ω
R3H8	4822 116 52196	47 Ω
R3H9	4822 116 52258	220 kΩ
R3J0	4822 116 52257	22 kΩ
R3J1	4822 116 52243	1.5 kΩ
R3J2	4822 116 52284	47 kΩ
R3J3	4822 050 11002	1 kΩ
R3J4	4822 050 11002	1 kΩ
R3J5	4822 116 52219	470 Ω
R3J6	4822 116 52284	47 kΩ
R3J7	4822 116 52219	330 Ω
R3J8	4822 116 52228	680 Ω
R3J9	4822 050 11002	1 kΩ
R3K0	4822 116 52256	2.2 kΩ
R3K1	4822 116 52233	10 kΩ
R3K2	4822 116 52243	1.5 kΩ
R3K3	4822 116 52228	680 Ω
R3K4	4822 116 52228	680 Ω
R3K5	4822 050 11002	1 kΩ
R3K6	4822 050 11002	1 kΩ
R3K7	4822 051 10101	100 Ω
R3K8	4822 116 52269	3.3 kΩ
R3K9	4822 050 11002	1 kΩ

Head Amplifer (VR842/742)

CAPACITORS (VR842/742)

C8H1	4822 122 40588	0.022µF
C8H2	4822 122 33639	1000PF
C8H3	4822 124 21894	10µF 16V
C8H4	4822 122 40589	0.047µF 50V
C8H5	5322 122 32143	22PF 50V
C8H6	4822 122 40589	0.047µF 50V
C8H7	5322 122 32143	22PF
C8H8	4822 124 21894	10µF 16V
C8H9	4822 124 21894	10µF 16V
C8J0	4822 122 40589	0.047µF 50V
C8J1	4822 122 31205	47PF 50V
C8J2	4822 122 40589	0.047µF 50V
C8J3	4822 122 31205	47PF 50V
C8J4	4822 124 21894	10µF 16V
C8J5	4822 122 33639	1000PF
C8K0	4822 124 21736	1µF 50V
C8K1	4822 122 40589	0.047µF 50V
C8K2	4822 122 40586	0.01µF
C8K3	4822 122 40586	0.01µF
C8K4	4822 124 41246	47µF 16V
C8K5	4822 122 40586	0.01µF
C8K6	4822 122 40586	0.01µF
C8K7	4822 124 41246	47µF 16V
C8K8	4822 122 40586	0.01µF
C8K9	4822 122 33639	1000PF
C8L0	4822 122 40586	0.01µF
C8L2	4822 124 21736	1µF 50V
C8L3	5322 122 32143	22PF 50V
C8L4	4822 122 31349	68PF
C8L5	5322 122 32265	100PF
C8L6	4822 122 31173	220PF 50V
C8L7	4822 122 33792	10PF
C8L9	4822 122 32027	56PF
C8M0	4822 122 31349	68PF 50V
C8M1	4822 122 33792	10PF 50V
C8M2	4822 122 31178	680PF 50V
C8M3	5322 122 32072	33PF
C8M4	4822 122 31823	15PF 50V
C8M8	4822 122 33639	1000PF
C8N0	4822 122 40586	0.01µF
C8N1	4822 122 40586	0.01µF
C8N2	4822 122 40586	0.01µF
C8N4	4822 122 40586	0.01µF
C8N5	4822 124 21894	10µF 16V
C8N6	4822 122 40586	0.01µF
C8N7	4822 124 21894	10µF 16V
C8N8	4822 122 40586	0.01µF
C8N9	4822 124 21736	1µF 50V
C8P0	5322 122 32335	330PF 50V
C8P1	4822 122 31349	68PF 50V
C8P2	4822 122 31349	68PF 50V
C8P3	4822 124 21736	1µF 50V
C8P4	4822 122 31349	68PF 50V
C8P5	5322 122 32335	330PF 50V

IC's(VR842/742)

IC87	4822 209 32251	BA7740FS
IC88	4822 209 30648	BA7274S HEAD AMP

CONNECTORS (VR842/742)

J8H1	4822 267 40907	12PIN
J8H2		14PIN
J8H3	4822 265 30971	5PIN

Head Amplifer (VR842/742)

COILS (VR842/742)

L8H1	4822 157 60444	100µH
L8H2	4822 157 60444	100µH
L8H4	4822 157 60445	15µH
L8H5	4822 157 62252	22µH
L8H6	4822 157 60454	82µH
L8H7	4822 157 60449	150µH
L8H8	4822 157 60446	33µH
L8H9	4822 157 60445	15µH
L8J0	4822 157 60444	100µH
L8J1	4822 157 60445	15µH
L8J2	4822 157 62252	22µH
L8J3	4822 157 62252	22µH

TRANSISTORS (VR842/742)

Q8H1	4822 130 61486	2SC2058S (P OR Q)
Q8H2	4822 130 60839	2SC2458 (Y OR GR)
Q8H3	4822 130 60839	2SC2458 (Y OR GR)

RESISTORS (VR842/742)

R8H1	4822 116 52228	680 Ω
R8H2	4822 116 52228	680 Ω
R8H3	4822 116 52228	680 Ω
R8H4	4822 116 52228	680 Ω
R8H5	4822 116 52224	470 Ω
R8H6	4822 116 52224	470 Ω
R8H7	4822 116 52195	47 Ω
R8H8	4822 116 52195	47 Ω
R8H9	4822 116 52258	220 kΩ
R8J0	4822 116 52257	22 kΩ
R8J1	4822 116 52243	1.5 kΩ
R8J2	4822 116 52284	47 kΩ
R8J3	4822 050 11002	1 kΩ
R8J4	4822 116 52243	1.5 kΩ
R8J5	4822 116 52219	470 Ω
R8J6	4822 116 52284	47 kΩ
R8J7	4822 116 52219	330 Ω
R8J8	4822 116 52228	680 Ω
R8J9	4822 050 11002	1 kΩ
R8K0	4822 116 52256	2.2 kΩ
R8K1	4822 116 52233	10 kΩ
R8K2	4822 116 52243	1.5 kΩ
R8K3	4822 116 52256	680 Ω
R8K4	4822 116 52228	680 Ω
R8K5	4822 116 52243	1 kΩ
R8K6	4822 050 11002	1 kΩ
R8K7	4822 116 52211	100 Ω
R8K8	4822 116 52269	3.3 kΩ
R8K9	4822 050 11002	1 kΩ
R8L1	4822 116 52257	22 kΩ
R8L2	4822 116 52233	10 kΩ
R8L3	4822 116 52233	10 kΩ
R8L5	4822 116 52244	15 kΩ
R8L6	4822 116 52271	33 kΩ
R8L7	4822 116 52243	1.5 kΩ
R8L8	4822 116 52243	1.5 kΩ
R8L9	4822 116 52243	1.5 kΩ
R8M0	4822 116 52243	1.5 kΩ
R8M1	4822 050 11002	1 kΩ
R8M2	4822 116 52176	10 Ω
R8M3	4822 116 52271	33 kΩ

A/V Selector

CAPACITORS

C451	4822 122 33639	1000PF
C452	4822 122 33639	1000PF
C453	4822 122 33639	1000PF
C454	4822 122 33639	1000PF
C455	4822 122 40586	0.01µF
C456	4822 124 21894	10µF 16V
C457	4822 124 21894	10µF 16V
C458	4822 124 21894	10µF 16V
C459	4822 124 21894	10µF 16V (VR842)
C460	4822 124 21894	10µF 16V
C470	4822 122 33794	3300PF (VR842)
C470	4822 122 33639	1000PF (VR642)
C471	4822 122 33794	3300PF (VR842)

DIODES

Z451	4822 130 80273	8.2V ZENER (VR842, VR742)
Z452	4822 130 80273	8.2V ZENER (VR842, VR742)
Z453	4822 130 80273	8.2V ZENER (VR842, VR742)
Z454	4822 130 80273	8.2V ZENER (VR842, VR742)
Z455	4822 130 80273	8.2V ZENER (VR842, VR742)
Z456	4822 130 80273	8.2V ZENER (VR842, VR742)
Z457	4822 130 80273	8.2V ZENER
Z458	4822 130 80273	8.2V ZENER
Z459	4822 130 80273	8.2V ZENER (VR842, VR742)
Z460	4822 130 80273	8.2V ZENER (VR842, VR742)
Z461	4822 130 80273	8.2V ZENER
Z462	4822 130 80273	8.2V ZENER
Z470	4822 130 80273	8.2V ZENER (VR842, VR642)
Z471	4822 130 80273	8.2V ZENER (VR842, VR642)
Z472	4822 130 80273	8.2V ZENER (VR842)
Z473	4822 130 80273	8.2V ZENER (VR842)
Z474	4822 130 80273	8.2V ZENER (VR842, VR642)
Z475	4822 130 80273	8.2V ZENER (VR842, VR642)

RF mod

E451		RF mod: Multi

IC/CONNECTORS

IC45		NJM2234L
J401	4822 265 20632	30PIN
J402		RCA 6PIN (VR842, VR742)
J402		RCA 2PIN (VR642)
J403	4822 265 41299	11PIN
J404	4822 265 30777	3PIN (VR642)
J470	4822 290 81584	RCA 3PIN (VR842)
J470		RCA 2PIN (VR642)
J471	4822 265 40796	7PIN (VR842)

A/V Selector

J471	4822 265 30777	3PIN (VR642)

COILS

L451	4822 157 62252	22μH
L452	4822 157 62252	22μH

RESISTORS

R451	4822 116 52284	47 kΩ (VR842, VR742)
R452	4822 116 52284	47 kΩ (VR842, VR742)
R453	4822 116 52284	470 Ω (VR842, VR742)
R454	4822 116 52284	47 kΩ (VR842, VR742)
R455	4822 116 52284	470 Ω
R456	4822 116 52284	47 kΩ
R457	4822 111 41355	75 Ω (VR842, VR742)
R458	4822 111 41355	75 Ω
R459	4822 116 52219	330 Ω
R460	4822 116 52224	470 Ω
R461	4822 116 52234	100 kΩ
R462	4822 116 52233	10 kΩ (VR742, VR642)
R463	4822 116 52195	47 Ω
R470	4822 116 52244	15 kΩ (VR842)
R470	4822 116 52284	470 Ω (VR642)
R471	4822 116 52244	15 kΩ (VR842)
R474	4822 111 41355	75 Ω (VR842)

SWITCHES

S401		SLIDE SWITCH (VR742/57)

NiCAM

CAPACITORS

C951	4822 124 41246	47μF 16V (VR842, VR742)
C953	4822 124 41246	47μF 16V (VR842, VR742)
C955	4822 122 33639	1000PF
C956	4822 122 40586	0.01μF (VR842, VR742/57)
C957	4822 122 40586	0.01μF (VR842, VR742/57)
C959	4822 122 40586	0.01μF (VR842, VR742/55)
C960	4822 122 40586	0.01μF (VR842, VR742/55)
C961	4822 121 42666	0.22μF 50V
C962	5322 122 32818	2200PF 50V
C963	4822 124 21407	0.47μF 50V
C964	4822 122 40586	0.01μF
C965	4822 124 41246	47μF 16V
C966	4822 122 40586	0.01μF
C967	4822 124 41246	47μF 16V
C968	4822 122 40586	0.01μF
C969	4822 124 21894	10μF 16V (VR842, VR742/57)
C970	4822 122 40586	0.01μF (VR842, VR742/57)
C971	4822 122 40586	0.01μF (VR842, VR742/57)
C972	4822 122 40586	0.01μF (VR842, VR742/57)
C973	4822 124 21894	10μF 16V (VR842, VR742/55)
C974	4822 122 40586	0.01μF (VR842, VR742/55)
C975	4822 122 40586	0.01μF (VR842, VR742/55)
C976	4822 122 40586	0.01μF (VR842, VR742/55)
C977	4822 124 41246	47μF 16V
C978	4822 122 40586	0.01μF (VR842, VR742/57)
C979	4822 122 40586	0.01μF (VR842, VR742/55)
C980	4822 124 21894	10μF 16V
C981	4822 124 21894	10μF 16V
C982	4822 124 21736	1μF 50V
C983	4822 122 33792	10PF 50V
C984	4822 124 21894	10μF 16V
C985	4822 124 21894	10μF 16V
C986	4822 124 21736	1μF 50V
C987	4822 122 33792	10PF 50V
C988	4822 124 21894	10μF 16V
C989	4822 124 21894	10μF 16V
C990	4822 124 21894	10μF 16V
C9C0	5322 122 34098	0.01μF
C9C1	4822 122 32843	0.22μF
C9C2	4822 122 32843	0.22μF
C9C3	5322 122 32452	47PF
C9C4	4822 122 33129	10PF
C9C5	4822 122 33709	3PF
C9C6	4822 122 33709	3PF
C9C7	5322 122 34098	0.01μF
C9C8	4822 124 23127	0.47μF 35V TANTL.
C9D0	4822 122 33714	0.1μF 5V
C9D1	4822 122 32669	47000PF
C9D2	4822 122 32669	47000PF
C9D3	4822 124 23127	0.47μF 35V TANTL.
C9D5	5322 122 34098	0.01μF
C9D6	4822 122 33714	0.1μF Y5V
C9D7	4822 122 33714	0.1μF Y5V
C9D8	4822 122 33714	0.1μF Y5V
C9D9	5322 122 32531	100PF
C9E0	5322 122 32531	100PF
C9E1	5322 122 32531	100PF
C9E2	5322 122 34098	0.01μF
C9F1	4822 124 41842	47μF 16V TANTL.
C9F2	5322 122 34098	0.01μF
C9F3	4822 124 41842	47μF 16V TANTL.
C9F4	4822 124 11074	10μF 16V TANTL.

NiCAM

C9F5	4822 122 32845	3300PF
C9F6	4822 122 33138	680PF
C9F7	4822 122 32921	150PF
C9F8	4822 124 11074	10μF 16V TANTL.
C9F9	4822 122 33127	2200PF
C9H0	4822 124 11074	10μF 16V TANTL.
C9H1	4822 124 11074	10μF 16V TANTL.
C9H2	4822 122 32845	3300PF
C9H3	4822 122 33138	680PF
C9H4	4822 122 32921	150PF
C9H5	4822 124 11074	10μF 16V TANTL.
C9H6	4822 122 33127	2200PF
C9H7	4822 124 11074	10μF 16V TANTL.
C9K1	4822 122 32695	68PF (VR842, VR742/57)
C9K2	5322 122 32658	22PF (VR842, VR742/57)
C9K3	4822 122 32695	68PF (VR842, VR742/55)
C9K4	4822 122 32693	33PF (VR842, VR742/55)
C9K5	5322 122 34098	0.01μF (VR842)
C9K6	4822 122 33135	220PF (VR742/55)
C9K6	5322 122 32452	47PF(VR842, VR742/57)
C9K7	4822 122 33129	10PF (VR742/55)
C9K7	4822 122 32693	33PF (VR842, VR742/57)
C9K8	4822 122 33135	220PF (VR742/55)
C9K8	5322 122 32452	47PF (VR842, VR742/57)
C9K9	4822 122 33129	10PF (VR742/55)
C9K9	4822 122 32693	33PF (VR842, VR742/57)
C9L0	4822 122 32921	150PF (VR842)
C9L1	4822 122 32921	150PF (VR842)

DIODES

D951	4822 130 32778	1SS133
D952	4822 130 32778	1SS133

FILTERS

FL95	4822 242 81439	SAF32.3MDE70Z (VR842, VR742/57)
FL96	4822 242 81441	SAF33.0MDA70Z (VR842, VR742/55)
FL97	4822 153 70063	6.552MHZ-BPF (VR842, VR742/57)
FL98	4822 153 70062	5.85MHZ-BPF (VR842, VR742/55)

IC's

IC95	4822 157 70462	LA7530N
IC96	4822 209 80401	NJM4558D
IC9C	4822 209 32253	TB1204F
IC9D	4822 209 32254	TA2009F
IC9E	4822 209 83368	4053(VR842)

CONNECTOR

J9C1	4822 267 51231	16PIN

COILS/TRANSFORMER

L951	4822 157 62252	22μH
L953	4822 157 62252	22μH
L954	4822 157 62252	22μH
L955	4822 157 62266	10μH (VR842, VR742/57)
L956	4822 157 62266	10μH (VR842, VR742/55)
L957	4822 157 70461	3.3μH ± 10%
L958	4822 157 62252	22μH (VR842, VR742/57)
L959	4822 157 62252	22μH (VR842, VR742/55)
L960	4822 157 62252	22μH (VR842, VR742/57)
L962	4822 157 62252	22μH
L963	4822 157 70461	3.3μH ± 10% (VR842, VR742/57)
L964	4822 157 70461	3.3μH ± 10% (VR842, VR742/55)
L9C1		22μH (VR842)
L9C2		22μH
L9C3		1MH
L9C4		1MH
T951	4822 157 70462	LA7530N

TRANSISTORS

Q951	4822 130 61486	2SC2058S (P OR Q)
Q952	4822 130 61486	2SC2058S (P OR Q) (VR842, VR742/57)
Q953	4822 130 60839	2SC2458 (Y OR GR) (VR842)
Q954	4822 130 61486	2SC2058S (P OR Q) (VR842, VR742/55)
Q955	4822 130 60839	2SC2458 (Y OR GR) (VR842)
Q956	4822 130 61486	2SC2058S (P OR Q)
Q966	4822 130 60107	2SA1048 (Y OR GR) (VR842)
Q967	4822 130 60839	2SC2458 (Y OR GR) (VR842)
Q968	4822 130 61486	2SC2058S (P OR Q) (VR842, VR742/57)
Q969	4822 130 61486	2SC2058S (P OR Q) (VR842, VR742/57)
Q970	4822 130 61486	2SC2058S (P OR Q) (VR842, VR742/55)
Q971	4822 130 61486	2SC2058S (P OR Q) (VR842, VR742/55)
Q972	4822 130 61486	2SC2058S (P OR Q) (VR842, VR742/55)
Q973	4822 130 61486	2SC2058S (P OR Q) (VR842, VR742/57)
Q974	4822 130 60839	2SC2458 (Y OR GR) (VR842, VR742/57)
Q975	4822 130 60839	2SC2458 (Y OR GR) (VR842, VR742/57)
Q976	4822 130 60839	2SC2458 (Y OR GR) (VR842, VR742/57)
Q9C1	4822 130 43398	2SC2712(G) PKG TE85L
Q9C2	4822 130 43398	2SC2712(G) PKG TE85L
Q9C3	4822 130 43398	2SC2712(G) PKG TE85L
Q9D1		RN1404 (VR842)
Q9D2		RN1404 (VR842)
Q9D3		RN1404 (VR842)

RESISTORS

R951	4822 116 52233	10 kΩ
R952	4822 116 52296	6.8 kΩ
R953	4822 116 52176	10 Ω
R954	4822 116 52243	1.5 kΩ
R955	4822 116 52228	680 Ω (VR842, VR742/57)
R956	4822 116 52176	10 Ω (VR842, VR742/57)
R957	4822 116 52176	10 Ω (VR842, VR742/57)
R958	4822 116 52219	330 Ω (VR842, VR742/57)

NiCAM

R959	4822 116 52269	3.3 kΩ (VR842)
R960	4822 116 52256	2.2 kΩ (VR842)
R961	4822 116 52256	2.2 kΩ (VR842)
R962	4822 116 52256	2.2 kΩ (VR842)
R963	4822 116 52228	680 Ω (VR842, VR742/55)
R965	4822 116 52176	22 Ω (VR842, VR742/55)
R966	4822 116 52219	330 Ω (VR842, VR742/55)
R967	4822 116 52269	3.3 kΩ (VR842)
R968	4822 116 52269	3.3 kΩ (VR842)
R969	4822 116 52256	2.2 kΩ (VR842)
R970	4822 116 52243	1.5 kΩ
R971	4822 116 52256	2.2 kΩ
R972	4822 116 52244	4.7 kΩ
R973	4822 116 52256	2.2 kΩ
R974	4822 116 52176	10 Ω
R975	4822 116 52224	470 Ω
R976	4822 116 52257	22 kΩ (VR842)
R977	4822 116 52257	22 kΩ (VR842)
R978	4822 116 52284	47 kΩ (VR842)
R979	4822 116 52284	47 kΩ (VR842)
R980	4822 116 52243	1.5 kΩ (VR842, VR742/57)
R981	4822 116 52256	2.2 kΩ (VR842, VR742/57)
R982	4822 116 52233	10 kΩ (VR842, VR742/57)
R983	4822 116 52283	4.7 kΩ (VR842, VR742/57)
R984	4822 050 11002	1 kΩ (VR842, VR742/57)
R985	4822 116 52175	100 Ω (VR842, VR742/57)
R987	4822 116 52186	22 Ω (VR842, VR742/57)
R988	4822 116 52224	1.5 kΩ (VR842, VR742/55)
R989	4822 116 52228	3.3 kΩ (VR842, VR742/55)
R990	4822 116 52283	10 kΩ (VR842, VR742/55)
R991	4822 116 52256	4.7 kΩ (VR842, VR742/55)
R992	4822 050 11002	1 kΩ (VR842, VR742/55)
R993	4822 116 52219	330 Ω (VR842, VR742/55)
R994	4822 116 52176	10 Ω (VR842, VR742/55)
R995	4822 116 52175	100 Ω (VR842, VR742/55)
R996	4822 116 52233	10 kΩ (VR842, VR742/55)
R997	4822 116 52233	10 kΩ (VR842, VR742/55)
R998	4822 116 52296	6.8 kΩ
R999	4822 116 52244	15 kΩ (VR842, VR742/57)
R9A0	4822 116 52296	6.8 kΩ (VR842)
R9A1	4822 116 52219	330 Ω (VR842, VR742/57)
R9A2	4822 116 52296	6.8 kΩ (VR742/57)
R9C1	4822 051 30333	33 kΩ 1/16W
R9C2	4822 051 30224	220 kΩ 1/16W
R9C3	4822 051 30684	680 Ω 1/16W
R9C4	4822 051 30221	220 Ω 1/16W
R9C5	4822 051 30224	220 kΩ 1/16W
R9C6	4822 051 30333	33 kΩ 1/16W
R9C7	4822 051 30224	220 kΩ 1/16W
R9C8	4822 051 30333	33 kΩ 1/16W
R9C9	4822 051 30101	100 Ω 1/16W
R9D0	4822 051 30101	100 Ω 1/16W
R9D1	4822 051 30101	100 Ω 1/16W
R9E1	4822 051 30473	47 kΩ 1/16W
R9E2	4822 051 30334	330 kΩ 1/16W
R9E3	4822 051 30103	10 kΩ 1/16W
R9E4	4822 051 30103	10 kΩ 1/16W
R9E5	4822 116 82487	0 Ω 1/16W
R9E6	4822 051 30472	4.7 kΩ 1/16W
R9E7	4822 051 30103	10 kΩ 1/16W
R9E8	4822 051 30229	22 Ω 1/16W
R9E9	4822 051 30473	47 kΩ 1/16W
R9F0	4822 051 30334	330 kΩ 1/16W
R9F1	4822 051 30103	10 kΩ 1/16W
R9F2	4822 051 30103	10 kΩ 1/16W
R9F3	4822 116 82487	0 Ω 1/16W
R9F4	4822 051 30472	4.7 kΩ 1/16W
R9F5	4822 051 30103	10 kΩ 1/16W
R9F6	4822 051 30229	22 Ω 1/16W
R9K1	4822 051 30222	2.2 kΩ 1/16W (VR842, VR742/57)
R9K2	4822 051 30222	2.2 kΩ 1/16W (VR842, VR742/55)
R9K3		10 kΩ ±25% 0.2W TRIMMING (VR842, VR742/57)
R9K4		10 kΩ ±25% 0.2W TRIMMING (VR842, VR742/55)
R9K5	4822 051 30332	3.3 kΩ 1/16W (VR842, VR742/57)
R9K6	4822 051 30332	3.3 kΩ 1/16W (VR842, VR742/55)
R9K7	4822 051 30223	22 kΩ 1/16W (VR842, VR742/57)
R9K8	4822 051 30223	22 kΩ 1/16W (VR842, VR742/55)
R9K9	4822 111 90913	33 kΩ 1/10W CHIP (VR842)
R9L0	4822 051 30473	47 kΩ 1/16W (VR842)
R9L1	4822 051 30102	1 kΩ 1/16W
R9L2	4822 051 30331	330 Ω 1/16W
R9L3	4822 051 30331	330 Ω 1/16W
R9L4	4822 051 30103	10 kΩ 1/16W (VR842)
R9M1	4822 116 82487	0 Ω 1/16W (VR742/55)
R9M2	4822 116 82487	0 Ω 1/16W (VR742/57)
R9M3	4822 111 90892	0 Ω 1/10W CHIP (VR742)
R9M4	4822 116 82487	0 Ω 1/16W (VR742)
R9N1	4822 116 82487	0 Ω 1/16W
R9N2	4822 116 82487	0 Ω 1/16W
R9N3	4822 116 82487	0 Ω 1/16W
R9N4	4822 111 90892	0 Ω 1/10W CHIP
R9N5	4822 111 90892	0 Ω 1/10W CHIP
R9N6	4822 116 82487	0 Ω 1/16W
R9N7	4822 116 82487	0 Ω 1/16W
R9N8	4822 111 90892	0 Ω 1/10W CHIP
R9N9	4822 111 90892	0 Ω ± 5% 1/16W CHIP
R9P0	4822 111 90892	0 Ω ± 5% 1/16W CHIP
R9P1	4822 116 82487	0 Ω ± 5% 1/16W
R9P2	4822 111 90892	0 Ω ± 5% 1/10W CHIP
R9Q0	4822 052 10101	100 Ω
R9Q1	4822 116 52296	6.8 kΩ
R9Q2	4822 116 52284	47 kΩ (VR842, VR742/55)
R9Q2	4822 116 52257	22 kΩ (VR742/57)
R9Q3	4822 116 52296	6.8 kΩ (VR742/57)
R9Q3	4822 116 52283	4.7 kΩ (VR842)
R9Q4	4822 116 52257	22 kΩ (VR842, VR742/57)
R9Q5	4822 116 52284	47 kΩ (VR842, VR742/57)
R9Q6	4822 116 52234	100 kΩ
R9Q7	4822 116 52245	150 kΩ
R9Q9	4822 116 52257	22 kΩ (VR842, VR742/57)
R9R0	4822 116 52284	47 kΩ (VR842, VR742/57)
R9R1	4822 116 52296	6.8 kΩ (VR742/57)
R9R1	4822 116 52283	4.7 kΩ (VR842)
R9R2	4822 116 52284	47 kΩ (VR842, VR742/55)
R9R2	4822 116 52257	22 kΩ (VR742/57)
R9R3	4822 116 52296	6.8 kΩ
R9R4	4822 116 52234	100 kΩ
R9R5	4822 116 52234	100 kΩ
R9R6	4822 116 52257	22 kΩ VR842)
R9R7	4822 116 52284	47 kΩ (VR842, VR742/57)
R9R8	4822 116 52284	47 kΩ (VR842, VR742/57)

NiCAM

R9R9	4822 116 52296	6.8 kΩ
R9S0	4822 116 52296	6.8 kΩ
R9S1		22 kΩ (VR742/57)
R9S2	4822 116 52234	100 kΩ
R9S3	4822 116 52245	150 kΩ

X-TAL's

X9C1	4822 242 81445	11.648MHZ
X9C2	4822 242 81443	6.552MHZ (VR842, VR742/57)
X9C3	4822 242 81442	5.85MHZ (VR842, VR742/55)

NTSC-PAL Conv.

CAPACITORS

C8A0	4822 122 40586	0.01μF
C8A1	4822 122 31349	68PF 50V
C8A2	5322 122 32072	33PF 50V
C8A5	4822 124 21736	1μF 50V
C8A6	4822 122 33794	3300PF
C8A7	4822 122 40586	0.01μF
C8A8	5322 122 32143	22PF 50V
C8A9	4822 122 31205	47PF 50V
C8C0	5322 122 32143	22PF 50V
C8C1	5322 122 32143	22PF 50V
C8C2	5322 122 32143	22PF 50V
C8C3	4822 124 21894	10μF 16V
C8C4	4822 122 40586	0.01μF
C8C5	4822 122 40586	0.01μF

IC

IC82		BA7045 NTSC TO PAL

COILS

L8A1		10μH
L8A2	4822 157 60458	3.3μH
L8A3	4822 157 60446	33μH
L8A4	4822 157 60446	33μH

TRANSISTOR

Q8A0	4822 130 60839	2SC2458 (Y OR GR)

RESISTORS

R8A0	4822 050 11002	1 kΩ
R8A1	4822 050 11002	1 kΩ
R8A2	4822 116 52233	10 kΩ
R8A3	4822 116 52234	100 kΩ
R8A4	4822 116 52285	470 kΩ
R8A5	4822 116 52258	220 kΩ
R8A6	4822 116 52296	6.8 kΩ
R8A7	4822 050 11002	1 kΩ
R8A8	4822 050 11002	1 kΩ
R8A9	4822 116 52224	470 Ω

Power supply

CAPACITORS

C101		220PF
C102		220PF
C103	4822 121 43363	0.22µF AC250V
C104	4822 122 31956	0.001µF 400V
C105	4822 122 31956	0.001µF 400V
C106	4822 121 51422	0.1µF AC250V
C115	4822 121 51421	0.047µF 630V
C116	4822 122 33821	150PF
C117	4822 124 23114	82µF 400V
C118	4822 122 40586	0.01µF
C119	4822 122 40586	0.01µF
C120	4822 124 23111	1000µF 16V
C121	4822 124 23111	1000µF 16V
C122	4822 124 41153	220µF 16V
C123	4822 124 22777	10µF 50V
C125	4822 122 32331	1000PF 50V
C126	4822 124 22781	1000µF 25V
C127	4822 124 22781	1000µF 25V
C128	4822 124 22777	10 µF 50V
C133	4822 124 41139	100µF 16V
C134	4822 124 21736	1µF 50V
C135	4822 121 41857	0.01µF
C136	4822 124 80493	1µF 250V
C137	4822 122 32331	1000PF 50V
C138	4822 122 32311	470PF 50V
C139	4822 121 41856	0.022µF 50V
C140	4822 121 42489	0.033µF 50V

DIODES

D101	4822 130 81732	1J4B42 BRIDGE
D104	4822 130 32778	1SS133
D107	4822 130 81244	ERA22-10
D108	4822 130 81728	1GWJ42
D109	4822 130 80528	MA185
D110		RU3YX
D111	4822 130 80528	MA185
D115	4822 130 32778	1SS133
D116	4822 130 32778	1SS133
D117	4822 130 80528	MA185
Z102	4822 130 80132	3.9V ZENER
Z103	4822 130 80273	8.2V ZENER
Z104	4822 130 33948	5.6V ZENER
Z105	4822 130 82874	MTZJ30D

FUSES

F101	4822 253 30415	1.6 A 250V
PR01	4822 209 61685	ICP N38

IC's

IC01	4822 130 82875	0N3171
IC02	4822 209 62759	NJM431

CONNECTORS

J101	4822 265 20359	2PIN
J102	4822 256 30329	FUSE CLIP
J103	4822 256 30329	FUSE CLIP
J104		12PIN
W101	4822 321 10656	AC CORD FOR PAL

COILS/TRANSFORMER

L101	4822 157 70398	22MHX2
L103	4822 152 20648	22µH
L104	4822 152 20648	22µH
L105	4822 152 20648	22µH
T101	4822 146 21727	SW TRANSF MALTI

TRANSISTORS

Q102	4822 130 43191	2SC1741(Q OR R)
Q105	4822 130 42254	2SD1275 P. DARLINTON
Q106	4822 130 60839	2SC2458 (Y OR GR)
Q107	4822 130 63048	2SK1611

RESISTORS

R101	4822 116 90745	330 kΩ 1/2W
R113	4822 115 90166	10 Ω 1/4W FUSE
R114	4822 113 90141	220 Ω 1/4W FUSE
R123	4822 116 83542	0.47 Ω 1/2W FUSIBLE
R124	4822 116 52257	22 kΩ
R125	4822 116 52283	4.7 kΩ
R126	4822 116 52283	4.7 kΩ
R127	4822 116 52283	4.7 kΩ
R128	4822 117 10158	1 Ω ± 5% 1/4W
R131	4822 117 10275	47 kΩ 3W METAL
R132	4822 117 10275	47 kΩ 3W METAL
R133	4822 116 52272	330 kΩ
R134	4822 116 52272	330 kΩ
R135	4822 116 52272	330 kΩ
R136	4822 116 52272	330 kΩ
R137	4822 116 52272	330 kΩ
R138	4822 116 52272	330 kΩ
R139	4822 116 52235	1 MΩ
R140		0.22 Ω 2W METAL
R141		150 Ω 2W METAL
R142	4822 050 11002	1 kΩ
R143	4822 050 11002	1 kΩ
R144	4822 116 52224	470 Ω
R145	4822 116 52211	150 Ω
R146	4822 116 52233	10 kΩ
R151	4822 050 11002	1 kΩ
R153	4822 116 52283	4.7 kΩ
R154	4822 116 52283	4.7 kΩ
R155	4822 116 52195	47 Ω
R156	4822 116 52283	4.7 kΩ
R157	4822 116 52228	680 Ω
R158		0.68 Ω ± 5% 1/2W FUSIBLE

Skew

CAPACITORS

C3A1	4822 124 21894	10µF 16V
C3A2	4822 124 21407	0.47µF 50V
C3A3	4822 124 21407	0.47µF 50V
C3A4	4822 124 21736	1µF 50V
C3A5	4822 124 21852	470µF 16V
C3A6	4822 122 31349	68PF 50V
C3A8	5322 122 32143	22PF 50V
C3A9	4822 122 31349	68PF 50V
C3C0	4822 122 40586	0.01µF
C3C1	4822 124 21903	1µF 50V
C3C2	4822 124 21736	1µF 50V
C3C3	4822 124 21894	10µF 16V
C3C4	4822 122 40586	0.01µF
C3D0	5322 122 32143	22PF 50V
C3D1	4822 124 41139	100µF 16V
C3D2	5322 122 32143	22PF
C3D3	4822 124 21894	10µF 16V
C3D4	4822 122 40586	0.01µF
C3D5	4822 122 31205	47PF 50V
C3D7	4822 122 31349	68PF 50V
C3D8	4822 122 10367	150PF
C3D9	4822 124 21736	1µF 50V

DIODES

D3A1	4822 130 32778	1SS133
D3A2	4822 130 32778	1SS133
D3A3	4822 130 32778	1SS133
D3A4	4822 130 32778	1SS133

IC's

IC3A	4822 209 32246	NJM2244
IC3C	4822 209 32252	TL8828P

COILS

L3A1	4822 157 60447	47µH
L3A2	4822 157 60446	33µH
L3A3	4822 157 60444	100µH
L3A4	4822 157 60444	100µH

TRANSISTORS

Q3A2	4822 130 60107	2SA1048 (Y OR GR)
Q3A3	4822 130 61486	2SC2058S (P OR Q)
Q3A4	4822 130 60107	2SA1048 (Y OR GR)
Q3A5	4822 130 61486	2SC2058S (P OR Q)

RESISTORS

R3A1	4822 052 10109	10 Ω
R3A2	4822 116 52234	100 kΩ
R3A3	4822 116 52283	4.7 kΩ
R3A6	4822 050 11002	1 kΩ
R3A7	4822 100 20681	2.2 kΩ TRIMMING
R3A8	4822 116 52256	2.2 kΩ
R3A9	4822 116 52256	2.2 kΩ
R3C0	4822 116 52228	680 Ω
R3C1	4822 116 52215	220 Ω
R3C2	4822 116 52224	470 Ω
R3C3	4822 116 52243	1.5 kΩ
R3C4	4822 116 52224	470 Ω
R3C5	4822 116 52228	680 Ω
R3C6	4822 116 52257	22 kΩ
R3C7	4822 116 52257	22 kΩ
R3C8	4822 050 11002	1 kΩ
R3C9	4822 116 52256	2.2 kΩ
R3D0	4822 116 52215	220 Ω

X-TAL'S

X3A1	4822 242 81446	13.5725MHZ

Timer-Tuner

CAPACITORS

C6K0		FMOH223ZTP16
C6K1	4822 124 41246	47µF 16V
C6K2	4822 122 40586	0.01µF
C6K3	4822 124 21844	4.7µF 50V
C6K4	4822 122 33639	1000PF
C6K5	4822 122 33639	1000PF
C6K6	4822 125 50437	3P-10P TRIMMING
C6K7	4822 122 33817	10PF
C6K8	4822 124 21852	470µF 16V

DIODES

D6K0	4822 130 32778	1SS133
D6K1	4822 130 32778	1SS133
D6K2	4822 130 32778	1SS133

IC's

IC6K	4822 209 32255	TMP87CK70F (MULTI)
IC6L	4822 209 31923	BR93LC46 64X16BIT
IC6M	4822 209 30646	S-8054ALB
IC6N	4822 209 30645	S-8053ALR

CONNECTORS

J6K0		38PIN (VR742)
J6K0	4822 265 61275	40PIN (VR842, VR642)
J6K1	4822 265 31076	4PIN (VR842, VR642)

TRANSISTOR

Q6K0	4822 130 60839	2SC2458 (Y OR GR)

RESISTORS

R6K0	4822 116 52233	10 kΩ
R6K1	4822 116 52233	10 kΩ
R6K2	4822 116 52233	10 kΩ
R6K3	4822 116 52233	10 kΩ
R6K4	4822 116 52233	10 kΩ
R6K5	4822 116 52233	10 kΩ
R6K6	4822 116 52285	470 kΩ
R6K7	4822 116 52284	47 kΩ
R6K8	4822 116 52284	47 kΩ
R6K9	4822 116 52284	47 kΩ
R6L0	4822 050 11002	1 kΩ
R6L1	4822 116 52284	47 kΩ
R6L2	4822 116 52284	47 kΩ
R6L3	4822 116 52285	470 kΩ (VR842, VR742)
R6L4	4822 116 52233	10 kΩ
R6L5	4822 116 52233	10 kΩ
R6L6	4822 116 52233	10 kΩ (VR742/57, VR642)
R6L7	4822 116 52233	10 kΩ
R6L8	4822 116 52269	3.3 kΩ
R6L9	4822 116 52175	100 Ω
R6M0	4822 116 52175	100 Ω
R6M1	4822 116 52284	47 kΩ
R6M2	4822 116 52284	47 kΩ
R6M3	4822 050 11002	1 kΩ (VR842, VR742)
R6M4	4822 116 52233	10 kΩ (VR842)
R6M5	4822 116 52233	10 kΩ (VR842)
R6M6	4822 116 52233	10 kΩ (VR842)
R6M7	4822 116 52233	10 kΩ (VR842)

X-TAL's

X6K0	4822 242 72066	CST8.0MHZ
X6K1	4822 242 72236	32.768KHZ

Luminance-Chrominance

CAPACITORS

C302	4822 122 40588	0.022µF
C303	4822 122 40586	0.01µF
C304	5322 122 33792	10PF 50V
C305	5322 122 32265	100PF 50V
C306	4822 122 40586	0.01µF
C307	4822 121 42666	0.22µF 50V
C308	4822 124 21894	10µF 16V
C309	5322 122 32143	22PF 50V
C310	4822 122 10367	150PF 50V
C312	4822 124 21894	10µF 16V
C313	4822 122 40586	0.01µF
C314	4822 124 21894	10µF 16V
C315	4822 124 21736	1µF 50V
C316	4822 124 21736	1µF 50V
C317	4822 124 21736	1µF 50V
C318	4822 122 40586	0.01µF
C319	4822 124 21894	10µF 16V
C320	4822 122 40586	0.01µF
C321	5322 122 32265	100PF 50V
C322	4822 122 10367	150PF 50V
C323	4822 122 31349	68PF 50V
C324	5322 122 32265	100PF 50V
C325	4822 124 21894	10µF 16V
C326	5322 122 32143	22PF 50V
C327	4822 122 31173	330PF
C328	5322 122 32311	470PF 50V
C330	5322 122 32265	100PF 50V
C331	4822 122 40586	0.01µF
C332	4822 124 23112	10µF 16V
C333	4822 122 40586	0.01µF
C334	5322 122 32265	100PF 50V
C335	4822 124 21894	10µF 16V
C336	4822 122 40586	0.01µF
C337	5322 122 32143	22PF
C338	4822 122 31349	68PF
C339	4822 124 21844	4.7µF 50V
C340	4822 124 41246	47µF 16V
C341	4822 122 40586	0.01µF
C342	4822 124 41139	100µF 16V
C343	4822 122 40586	0.01µF
C344	4822 122 40586	0.01µF
C345	4822 122 33795	4700PF
C346	4822 124 21903	1µF 50V
C347	4822 124 21894	10µF 16V
C348	4822 122 40589	0.047µF 50V
C349	4822 122 40589	0.047µF 50V
C350	4822 122 40589	0.047µF 50V
C351	4822 122 40589	0.047µF 50V
C353	4822 122 40367	7PF 50V
C371	4822 124 21894	10µF 16V
C372	4822 124 41246	47µF 16V
C373	4822 124 21736	1µF 50V
C374	4822 124 21894	10µF 16V
C3F0	5322 122 33792	10PF (VR842, VR642)
C3F1	4822 124 21894	10µF 16V (VR842, VR642)
C3F2	4822 122 33639	1000PF (VR842, VR642)
C3F3	4822 122 33639	1000PF (VR842, VR642)
C3F4	4822 124 41153	220µF 16V (VR842, VR642)
C3F5	4822 124 21736	1µF 50V (VR842, VR642)
C3F6	4822 124 21736	1µF 50V (VR842, VR642)
C3F7	4822 124 21736	1µF 50V (VR842, VR642)
C3F8	4822 124 21736	1µF 50V (VR842, VR642)
C3F9	4822 124 21894	10µF 16V (VR842, VR642)
C801	4822 122 40589	0.047µF 50V
C802	4822 122 40586	0.01µF
C803	4822 124 21736	1µF 50V
C804	5322 122 32335	330PF 50V
C805	4822 124 21736	1µF 50V
C806	4822 124 21736	1µF 50V
C807	4822 122 40588	0.022µF
C808	4822 122 40589	0.047µF 50V
C809	4822 124 21894	10µF 16V
C810	4822 122 40586	0.01µF
C811	4822 122 40586	0.01µF
C812	4822 122 40586	0.01µF
C813	4822 124 21894	10µF 16V
C814	4822 122 40586	0.01µF
C815	4822 122 40586	0.01µF
C816	4822 122 40586	0.01µF
C817	4822 122 40586	0.01µF
C818	4822 124 21894	10µF 16V
C819	4822 124 21894	10µF 16V
C820	4822 122 31349	68PF 50V
C821	5322 122 32072	33PF 50V
C822	5322 122 33792	10PF
C823	4822 122 40589	0.047µF 50V
C824	4822 124 21736	1µF 50V
C825	4822 122 40586	0.01µF
C826	4822 122 40586	0.01µF
C827	4822 122 40586	0.01µF
C828	4822 124 21894	10µF 16V
C829	4822 122 31173	220PF 50V (VR742)
C829	5322 122 32265	100PF 50V (VR842, VR642)
C830	5322 122 32265	100PF 50V
C831	5322 122 32265	100PF 50V (VR842, VR642)
C832	4822 122 40586	0.01µF
C833	4822 122 40586	0.01µF
C834	5322 121 42386	0.1µF 50V
C835	4822 122 40588	0.022µF
C836	5322 121 42386	0.1µF 50V
C837	4822 122 40588	0.022µF
C838	4822 122 40586	0.01µF
C839	4822 122 40586	0.01µF
C840	4822 122 40586	0.01µF
C841	4822 122 40586	0.01µF
C842	4822 122 40586	0.01µF
C843	4822 122 40586	0.01µF
C844	4822 122 40586	0.01µF
C845	4822 122 40586	0.01µF
C846	4822 124 21894	10µF 16V
C847	4822 122 40586	0.01µF
C848	4822 122 40586	0.01µF
C849	4822 122 33817	6.8PF
C850	5322 122 32265	100PF 50V
C851	5322 122 32143	22PF 50V
C852	4822 122 40586	0.01µF
C853	4822 122 40586	0.01µF
C854	4822 124 21894	10µF 16V
C855	5322 122 32265	100PF 50V
C856	4822 122 33817	6.8PF
C857	5322 122 32265	100PF 50V
C858	4822 122 40586	0.01µF
C859	4822 122 40586	0.01µF
C860	5322 121 42386	0.1µF 50V
C861	4822 122 40589	0.047µF
C862	4822 122 40367	7PF 50V

Luminance-Chrominance

DIODES

D301	4822 130 32778	1SS133
D302	4822 130 32778	1SS133
D303	4822 130 32778	1SS133
D304	4822 130 32778	1SS133
D3F0	4822 130 32778	1SS133 (VR842, VR642)
D3F1	4822 130 32778	1SS133 (VR842, VR642)
D3F2	4822 130 32778	1SS133 (VR842, VR642)
D801	4822 130 32778	1SS133 (VR842, VR642)
D802	4822 130 32778	1SS133
D803	4822 130 32778	1SS133
D804	4822 130 32778	1SS133
D805	4822 130 32778	1SS133
D806	4822 130 32778	1SS133
D807	4822 130 32778	1SS133
D808	4822 130 32778	1SS133
D809	4822 130 32778	1SS133
D810	4822 130 32778	1SS133
D811	4822 130 32778	1SS133
D812	4822 130 32778	1SS133
D813	4822 130 32778	1SS133
D814	4822 130 32778	1SS133
D815	4822 130 32778	1SS133
Z370	4822 130 33948	5.6V ZENER

FILTERS

FL31	4822 153 70058	3MHZ LPF (PAL)
FL81	4822 153 70061	4.43MHZ-BPF/5.06MHZ-BPF
FL82	4822 153 70059	3.58MHZ-BPF/4.21MHZ-BPF
FL83	4822 320 40259	EFD-JF124A13H COMB
FL84		EFD-HF645A15C COMB
FL85		COMB- EFDHC645B15Q

IC's

IC31		AN3248NK
IC32	4822 209 30653	TL8819P
IC33	4822 209 31631	NJM7805FA
IC34	4822 209 63155	LA7311 (VR842, VR642)
IC81		LA7333

CONNECTORS

J301		14PIN
J302	4822 265 20632	30PIN

COILS

L301	4822 157 60458	3.3µH
L302	4822 157 60444	100µH
L303	4822 157 60444	100µH
L304	4822 157 60444	100µH
L305	4822 157 60445	15µH
L306	4822 157 62252	22µH
L307	4822 157 62252	22µH
L308	4822 157 60454	68µH
L3F0	4822 157 62252	22µH (VR842)
L801		10µH
L802	4822 157 60458	3.3µH
L803	4822 157 62252	22µH
L804	4822 157 60452	330µH
L805	4822 157 60452	330µH
L806	4822 157 63638	1MH
L807	4822 157 60445	15µH
L809	4822 157 60449	150µH
L810		10µH
L811	4822 157 60451	220µH

TRANSISTORS

Q301	4822 130 60107	2SA1048 (Y OR GR) (VR642)
Q302	4822 130 60107	2SA1048 (Y OR GR)
Q303	4822 130 61486	2SC2058S (P OR Q)
Q304	4822 130 60839	2SC2458 (Y OR GR)
Q305	4822 130 60839	2SC2458 (Y OR GR)
Q306	4822 130 60107	2SA1048 (Y OR GR)
Q308	4822 130 60839	2SC2458 (Y OR GR)
Q371	4822 130 60107	2SA1048 (Y OR GR)
Q372	4822 130 60107	2SA1048 (Y OR GR)
Q374	4822 130 60839	2SC2458 (Y OR GR)
Q375	4822 130 60839	2SC2458 (Y OR GR)
Q376	4822 130 60839	2SC2458 (Y OR GR)
Q377	4822 130 60839	2SC2458 (Y OR GR)
Q3F0	4822 130 60107	2SA1048 (Y OR GR) (VR842, VR642)
Q801	4822 130 60839	2SC2458 (Y OR GR)
Q802	4822 130 60839	2SC2458 (Y OR GR)
Q803	4822 130 60839	2SC2458 (Y OR GR)
Q804	4822 130 60839	2SC2458 (Y OR GR)
Q805	4822 130 60839	2SC2458 (Y OR GR)
Q806	4822 130 60839	2SC2458 (Y OR GR)
Q807	4822 130 60839	2SC2458 (Y OR GR) (VR842, VR642)
Q809	4822 130 60839	2SC2458 (Y OR GR)
Q810	4822 130 60839	2SC2458 (Y OR GR)
Q811	4822 130 60107	2SA1048 (Y OR GR)
Q812	4822 130 61486	2SC2058S (P OR Q)
Q813	4822 130 61486	2SC2058S (P OR Q)
Q814	4822 130 60107	2SA1048 (Y OR GR) (VR842, VR642)
Q815	4822 130 60839	2SC2458 (Y OR GR)
Q816	4822 130 60839	2SC2458 (Y OR GR)
Q817	4822 130 60107	2SA1048 (Y OR GR)
Q818	4822 130 60839	2SC2458 (Y OR GR)
Q819	4822 130 60839	2SC2458 (Y OR GR)
Q820	4822 130 60839	2SC2458 (Y OR GR)
Q821	4822 130 60107	2SA1048 (Y OR GR)
Q822	4822 130 61486	2SC2058S (P OR Q)
Q823	4822 130 60839	2SC2458 (Y OR GR)
Q824	4822 130 60839	2SC2458 (Y OR GR)
Q825	4822 130 60839	2SC2458 (Y OR GR)
Q826	4822 130 60839	2SC2458 (Y OR GR)
Q827	4822 130 60839	2SC2458 (Y OR GR)
Q828	4822 130 60839	2SC2458 (Y OR GR)

RESISTORS

R301	4822 116 52271	10 kΩ (VR642)
R302	4822 116 52211	220 Ω
R303	4822 116 52271	10 kΩ (VR642)
R304	4822 116 52244	15 kΩ
R305	4822 116 52271	33 kΩ
R306	4822 116 52296	6.8 kΩ

Luminance-Chrominance

R307	4822 116 52271	33 kΩ
R308	4822 116 52297	68 kΩ
R309	4822 116 52297	68 kΩ
R310	4822 100 11351	10 kΩ TRIMMING
R311	4822 050 11002	1 kΩ
R312	4822 100 11373	4.7 kΩ TRIMMING
R313	4822 116 52296	10 kΩ
R314	4822 116 52243	2.2 kΩ
R315	4822 116 52271	33 kΩ
R316	4822 100 11373	4.7 kΩ TRIMMING
R317	4822 116 52283	4.7 kΩ
R318	4822 116 52228	680 Ω
R319	4822 116 52215	220 Ω
R320	4822 116 52256	2.2 kΩ
R321	4822 050 11002	1 kΩ
R322	4822 116 52257	22 kΩ
R323	4822 116 52257	22 kΩ
R324	4822 116 52243	1.5 kΩ
R325	4822 116 52219	330 Ω
R326	4822 116 52243	1.5 kΩ
R327	4822 116 52243	1.5 kΩ
R328	4822 050 11002	1 kΩ
R331	4822 100 11372	47 kΩ TRIMMING
R332	4822 116 52284	47 kΩ
R333	4822 116 52284	47 kΩ
R334	4822 050 11002	1 kΩ
R335	4822 116 52283	4.7 kΩ
R339	4822 116 52224	330 Ω
R340	4822 116 52224	680 Ω
R341	4822 116 52256	2.2 kΩ
R342	4822 116 52256	2.2 kΩ
R343	4822 100 11372	47 kΩ TRIMMING
R344	4822 116 52272	330 kΩ
R345	4822 116 52233	10 kΩ
R346	4822 116 52269	3.3 kΩ
R347	4822 116 60298	10 Ω 2W METAL
R348	4822 116 60298	10 Ω 2W METAL
R349	4822 116 52284	47 kΩ
R350	4822 116 52284	47 kΩ
R351	4822 116 52233	10 kΩ
R352	4822 050 11002	1 kΩ
R353	4822 050 11002	1 kΩ
R354	4822 050 11002	1 kΩ
R355	4822 116 52234	100 kΩ
R356	4822 050 11002	1 kΩ
R370	4822 116 52233	10 kΩ
R371	4822 116 52243	330 Ω
R372	4822 116 52269	3.3 kΩ
R373	4822 116 52271	10 kΩ
R374	4822 116 52297	68 kΩ
R375	4822 100 11372	100 kΩ TRIMMING
R378	4822 116 52284	47 kΩ
R379	4822 116 52233	10 kΩ
R380	4822 116 52284	47 kΩ
R381	4822 116 52284	47 kΩ
R382	4822 116 52284	47 kΩ
R383	4822 116 52284	47 kΩ
R384	4822 116 52243	1.5 kΩ
R3F0	4822 116 52235	1 MΩ (VR842)
R3F1	4822 050 11002	1 kΩ (VR842)
R3F2	4822 116 52235	1 MΩ (VR842)
R3F3	4822 116 52257	10 kΩ (VR842)
R3F4	4822 050 11002	1 kΩ (VR842)
R3F5	4822 116 52283	4.7 kΩ (VR842)
R3F6	4822 116 52284	47 kΩ (VR842)
R3F7	4822 116 52284	47 kΩ (VR842)
R3F8	4822 116 52257	22 kΩ (VR842)
R801	4822 116 52284	47 kΩ

R802	4822 116 521284	47 kΩ
R803	4822 116 52283	4.7 kΩ
R804	4822 116 52284	47 kΩ
R805	4822 116 52284	47 kΩ
R806	4822 116 52284	47 kΩ
R807	4822 116 52257	22 kΩ
R808	4822 116 52257	22 kΩ
R809	4822 116 52256	2.2 kΩ
R810	4822 116 52243	1.5 kΩ
R811	4822 116 52269	15 kΩ
R812	4822 116 52243	6.8 kΩ
R813	4822 116 52243	1.5 kΩ
R814	4822 116 52243	4.7 kΩ
R815	4822 116 52283	15 kΩ
R816	4822 116 52269	3.3 kΩ
R817	4822 116 52243	1.5 kΩ
R818	4822 116 52243	1.5 kΩ
R819	4822 116 52243	1.5 kΩ
R820	4822 116 52283	4.7 kΩ
R821	4822 050 11002	1 kΩ
R822	4822 116 52283	4.7 kΩ (VR842)
R823	4822 116 52283	4.7 kΩ (VR842)
R824	4822 116 52283	4.7 kΩ (VR842)
R825	4822 116 52257	22 kΩ ± 6% 1/6W
R826	4822 050 11002	2.2 kΩ
R827	4822 050 11002	1 kΩ
R828	4822 050 11002	1 kΩ
R829	4822 050 11002	1 kΩ
R830	4822 116 52243	1.5 kΩ
R831	4822 116 52269	3.3 kΩ
R832	4822 116 52233	10 kΩ
R833	4822 116 52269	3.3 kΩ
R834	4822 050 11002	1 kΩ
R835	4822 116 52244	15 kΩ
R836	4822 116 52284	47 kΩ
R837	4822 116 52245	150 kΩ
R838	4822 116 52234	100 kΩ
R839	4822 116 52233	10 kΩ
R840	4822 116 52233	10 kΩ
R841	4822 116 52256	2.2 kΩ
R842	4822 116 52271	33 kΩ
R843	4822 116 52271	33 kΩ
R844	4822 116 52233	10 kΩ
R845	4822 116 52256	2.2 kΩ
R846	4822 116 52271	33 kΩ
R847	4822 116 52233	10 kΩ
R848	4822 116 52271	33 kΩ
R849	4822 116 52256	2.2 kΩ
R850	4822 050 11002	1 kΩ
R851	4822 116 52284	47 kΩ (VR842)
R852	4822 116 52284	47 kΩ (VR842)
R853	4822 116 52215	220 Ω
R854	4822 116 52224	470 Ω
R855	4822 116 52195	47 Ω
R856	4822 050 11002	1 kΩ
R857	4822 050 11002	1 kΩ
R858	4822 116 52256	2.2 kΩ
R859	4822 116 52256	2.2 kΩ
R860	4822 116 52233	10 kΩ
R861	4822 116 52233	10 kΩ
R862	4822 116 52233	10 kΩ
R863	4822 116 52269	3.3 kΩ
R864	4822 050 11002	1 kΩ
R865	4822 116 52219	330 Ω
R866	4822 116 52175	150 Ω
R867	4822 116 52228	680 Ω
R869	4822 116 52224	330 Ω
R870	4822 116 52215	220 Ω

Luminance-Chrominance

R871	4822 116 52215	220 Ω
R872	4822 116 52243	1.5 kΩ
R873	4822 116 52228	680 Ω
R874	4822 116 52228	680 Ω
R875	4822 116 52244	15 kΩ
R876	4822 116 52284	47 kΩ
R877	4822 116 52244	15 kΩ
R878	4822 116 52284	47 kΩ
R879	4822 116 52228	680 Ω
R880	4822 116 52271	33 kΩ
R881	4822 116 52244	15 kΩ
R882	4822 116 52284	47 kΩ
R883	4822 050 11002	1 kΩ
R884	4822 116 52215	220 Ω
R885	4822 116 52228	680 Ω
R886	4822 050 11002	1 kΩ
R887	4822 116 52224	470 Ω
R888	4822 116 52284	47 kΩ
R889	4822 116 52234	100 kΩ
R890	4822 116 52233	10 kΩ
R891	4822 116 52234	100 kΩ
R892	4822 116 52175	100 Ω
R893	4822 116 52256	2.2 kΩ
R894	4822 116 52257	22 kΩ
R895	4822 116 52256	2.2 kΩ
R896	4822 116 52244	15kΩ

X-TAL's

X301	4822 242 81444	8.86MHZ X'TAL
X801	4822 242 72951	4.43MHZ X'TAL
X802		3.58MHZ X'TAL